

**TDMS No.** 96015 - 05

**Test Type:** CHRONIC

**Route:** DOSED WATER

**Species/Strain:** RATS/F 344

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
WATER DISINFECTION BYPRODUCTS (DIBROMOACETONITRILE)  
**CAS Number:** 3252-43-5  
**Pathologist:** FARRELL, D. - HEATH, J. - JOKINEN, M.  
**F1\_R2**

**Date Report Reqstd:** 06/09/2006

**Time Report Reqstd:** 12:50:37

**First Dose M/F:** 09/05/01 / 09/05/01

**Lab:** SRI

**C Number:** C96015

**Lock Date:** 04/30/2004

**Cage Range:** ALL

**Date Range:** ALL

**Reasons For Removal:** ALL

**Removal Date Range:** ALL

**Treatment Groups:** Include ALL

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## **ALIMENTARY SYSTEM**

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## Tooth Malformation

+

## CARDIOVASCULAR SYSTEM

Blood Vessel  
Aneurysm  
Hemorrhage

Heart  
Cardiomyopathy  
Thrombosis

# **ENDOCRINE SYSTEM**

Adrenal Cortex  
Accessory Adrenal Cortical Nodule  
Cytoplasmic Alteration, Focal  
Hematopoietic Cell Proliferation  
Hyperplasia, Focal  
Vacuolization Cytoplasmic  
Capsule, Inflammation, Focal

Adrenal Medulla  
Hyperplasia  
Hyperplasia, Focal

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## **GENERAL BODY SYSTEM**

Peritoneum	+
Mesothelium, Tunica Vaginalis, Hyperplasia	2
.....	.....
Tissue NOS Thoracic, Hemorrhage	

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Coagulating Gland  
Inflammation

Epididymis  
Inflammation  
Epithelium, Vacuolization Cytoplasmic

Preputial Gland  
Degeneration, Cystic  
Hyperplasia, Cystic  
Inflammation

Prostate  
Inflammation  
Epithelium, Hyperplasia

### Seminal Vesicle

Testes  
Atrophy  
Interstitial Cell, Hyperplasia, Focal

## **HEMATOPOIETIC SYSTEM**

Bone Marrow  
Hyperplasia

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	1	9	0	6	0	4	3	3	3	2	3	3	2	2	2	2	3	3	3	3	3	3	3	3	2	2	2	2	2	2				
	0	7	7	3	7	9	0	0	0	7	0	0	9	9	9	1	1	1	1	1	1	1	1	1	1	9	9	9	9	9	9			
<b>FISCHER 344 RATS MALE</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
<b>ANIMAL ID</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
<b>0 MG/L</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0				
Lymph Node	+	+		+	+	+		+	+	+																								
Deep Cervical, Hemorrhage																																		
Mediastinal, Ectasia																																		
Mediastinal, Hemorrhage																																		
Pancreatic, Hemorrhage																																		
Pancreatic, Hyperplasia, Lymphoid																																		
Lymph Node, Mandibular Ectasia	M	+	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M				
Lymph Node, Mesenteric Ectasia	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Fibrosis																																		
Hyperplasia, Lymphoid																																		
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			
Congestion																																		
Fibrosis, Focal																																		
Hematopoietic Cell Proliferation																																		
Necrosis, Focal																																		
Red Pulp, Depletion Cellular																																		
Thymus	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			
Atrophy																																		
Hemorrhage																																		

**INTEGUMENTARY SYSTEM**

Mammary Gland	+	+	+		+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
---------------	---	---	---	--	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

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## Lab: SRI

Dilatation 2 4 2 2 3  
Fibrosis  
Inflammation, Granulomatous, Focal

## MUSCULOSKELETAL SYSTEM

## Skeletal Muscle

## **NERVOUS SYSTEM**

## Peripheral Nerve

## Spinal Cord

## **RESPIRATORY SYSTEM**

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	1	9	0	6	0	4	3	3	2	3	3	2	2	2	3	3	3	3	3	3	3	3	3	3	2	2	2	2	2	2
	0	7	7	3	7	9	0	0	0	7	0	0	9	9	9	1	1	1	1	1	1	1	1	1	9	9	9	9	9	9
<b>FISCHER 344 RATS MALE</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>ANIMAL ID</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>0 MG/L</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	

**males  
(cont...)**

Congestion																													
Inflammation																													
Metaplasia, Osseous, Focal																													
Alveolar Epithelium, Hyperplasia																													
Nose	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Nasolacrimal Duct, Inflammation																													
	2																												
Trachea	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	

**SPECIAL SENSES SYSTEM**

Eye	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Atrophy																													
Harderian Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Hyperplasia, Lymphoid, Focal																													
Epithelium, Hyperplasia, Focal																													
Lacrimal Gland																													
	+																												

**URINARY SYSTEM**

Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Infarct	3																											
Nephropathy	3	2	1	1	1	1	2	2	1	1	1	3	2	2	2	2	1	1	2	2	2	1	3	1	2	3		
Renal Tubule, Accumulation, Hyaline																												
Droplet																												

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## Renal Tubule, Cyst

## Renal Tubule, Pigmentation

## **males (cont...)**

## **FISCHER 344 RATS MALE**

**ANIMAL ID**

**0 MG/L**

## Urinary Bladder

## **Urinary Bladder Hemorrhage**

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	5	9	2	2	5	3	0	3	3	3	9	0	3	3	1	2	2	1	3	3	1	7	2	3	0
	2	6	9	9	2	1	6	1	1	1	6	0	0	0	1	9	6	0	0	9	9	9	1	8	
<b>FISCHER 344 RATS MALE</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>ANIMAL ID</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>0 MG/L</b>	2	2	2	2	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	5	
	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	
																								<b>* TOTALS</b>	

**ALIMENTARY SYSTEM**

Esophagus	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48	
Epithelium, Hyperkeratosis						2		1							2	2									<b>6 1.8</b>
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	A	+	+	+	+	+	48	
Inflammation, Chronic															3										<b>1 3.0</b>
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A	A	+	+	+	+	+	+	+	48	
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	49	
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	49	
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A	A	+	A	+	+	+	A	+	46	
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A	A	+	A	+	+	+	+	+	47	
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Angiectasis, Focal																								<b>1 2.0</b>	
Degeneration, Cystic, Focal															2	2	2								<b>5 1.8</b>
Fibrosis, Focal																								<b>1 2.0</b>	
Hematopoietic Cell Proliferation															3										<b>1 3.0</b>
Hepatodiaphragmatic Nodule																X		X							<b>5</b>
Inflammation, Chronic															1	2	2	2	2	2	2	1		<b>28 1.8</b>	
Necrosis															1	2	2	3	2	2	1	2	2	1	<b>3 2.0</b>
Bile Duct, Hyperplasia															3	4	3	3	3	3	2	1	2	2	<b>45 2.7</b>
Hepatocyte, Basophilic Focus															3	3	3	3	3	3	2	1	2	2	<b>26</b>
	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		

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	5	9	2	2	5	3	0	3	3	3	9	0	3	3	1	2	2	1	3	3	1	7	2	3	0
	2	6	9	9	2	1	6	1	1	1	6	0	0	0	1	9	6	0	0	9	9	9	1	8	
<b>FISCHER 344 RATS MALE</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>ANIMAL ID</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>0 MG/L</b>	2	2	2	2	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	5	
	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	
																								<b>* TOTALS</b>	
Hepatocyte, Clear Cell Focus			X		X		X	X				X				X	X	X	X	X	X	X	X	24	
Hepatocyte, Cytologic Alterations, Focal			1																					1 1.0	
Hepatocyte, Cytoplasmic Alteration, Focal																								2 2.5	
Hepatocyte, Eosinophilic Focus																								7	
Hepatocyte, Mixed Cell Focus																								26	
Hepatocyte, Necrosis, Focal																								1 1.0	
Hepatocyte, Vacuolization Cytoplasmic	3	1	2	2	2	3	2	2	3		3	1	2	3	2	3	1	1		1	1			37 2.1	
Mesentery			+																					14	
Accessory Spleen																								1 2.0	
Fat, Necrosis, Focal			2																					9 3.0	
Pancreas			+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	49	
Hyperplasia, Lymphoid																								1 2.0	
Acinus, Atrophy, Focal			2	2	1		2		1	2	2	2	3				2			3				24 1.8	
Acinus, Cytoplasmic Alteration																								1 2.0	
Duct, Cyst																								24	
Salivary Glands			+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Atrophy, Focal																								1 1.0	
Stomach, Forestomach			+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Ulcer																								1 2.0	
Epithelium, Hyperplasia																								2 2.5	
Stomach, Glandular			+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Erosion																								5 2.0	
Inflammation, Focal																								1 1.0	
Ulcer																								2 1.5	
Glands, Ectasia			1														1							4 1.0	

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x .. Lesion present

l .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

TDMS No. 96015 - 05

**Test Type:** CHRONIC

**Route:** DOSED WATER

**Species/Strain:** RATS/F 344

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
**WATER DISINFECTION BYPRODUCTS (DIBROMOACETONITRILE)**  
**CAS Number: 3252-43-5**  
**Pathologist: FARRELL, D. - HEATH, J. - JOKINEN, M.**

Date Report Requested: 06/09/2006

Time Report Requested: 12:50:37

**First Dose M/F:** 09/05/01 / 09/05/01

Lab: SRI

## Tooth Malformation

1

## CARDIOVASCULAR SYSTEM

## **ENDOCRINE SYSTEM**

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+ .. Tissue examined microscopically

x .. Lesion present

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TDMS No. 96015 - 05

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Route: DOSED WATER

Species/Strain: RATS/F 344

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WATER DISINFECTION BYPRODUCTS (DIBROMOACETONITRILE)

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Date Report Reqsted: 06/09/2006

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Lab: SRI

DAY ON TEST	6	6	7	7	6	7	7	7	7	4	6	7	7	6	7	7	7	7	7	6	6	7	7	5	
	5	9	2	2	5	3	0	3	3	9	0	3	3	1	2	2	1	3	3	1	7	2	3	0	
	2	6	9	9	2	1	6	1	1	1	6	0	0	0	1	9	6	0	0	9	9	9	1	8	
<b>FISCHER 344 RATS MALE</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>ANIMAL ID</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>0 MG/L</b>	2	2	2	2	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	5	
	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	
																								<b>* TOTALS</b>	
Islets, Pancreatic Hyperplasia	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	49	
																			2		2	3	2.0		
Parathyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	I	+	+	+	M	+	+	+	+	+	46	
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Angiectasis																				3		7	2.3		
Cyst																							2		
Hemorrhage																							3	5.24	
Pars Distalis, Cytoplasmic Alteration, Focal																				2		4	1.3		
Pars Distalis, Degeneration, Cystic, Focal																				2		1	2.0		
Pars Distalis, Hyperplasia, Focal																				2		6	2.3		
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	49	
C-cell, Hyperplasia	2	2	2	2	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	3	1	2	2	2	38 1.8
Follicle, Degeneration, Cystic, Focal																							1	2.0	
Follicular Cell, Hyperplasia, Focal																							5	1.8	

**GENERAL BODY SYSTEM**

Peritoneum	+																							2	
Mesothelium, Tunica Vaginalis, Hyperplasia	2																							2	2.0
Tissue NOS																								1	
Thoracic, Hemorrhage																								1	4.0

**GENITAL SYSTEM**

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TDMS No. 96015 - 05

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/F 344

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
**WATER DISINFECTION BYPRODUCTS (DIBROMOACETONITRILE)**  
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Lab: SRI

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	5	9	2	2	5	3	0	3	3	9	0	3	3	1	2	2	1	3	3	1	7	2	3	0
	2	6	9	9	2	1	6	1	1	1	6	0	0	0	1	9	6	0	0	9	9	9	1	8
<b>FISCHER 344 RATS MALE</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>ANIMAL ID</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>0 MG/L</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2	2	2	2	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	5
	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9
Lymph Node	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	26	
Deep Cervical, Hemorrhage																								1 3.0
Mediastinal, Ectasia																								1 3.0
Mediastinal, Hemorrhage																								4 3.0
Pancreatic, Hemorrhage																								1 3.0
Pancreatic, Hyperplasia, Lymphoid																								1 3.0
Lymph Node, Mandibular Ectasia	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	1	1 4.0
Lymph Node, Mesenteric Ectasia	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Fibrosis																								2 3.5
Hyperplasia, Lymphoid																								1 3.0
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	49
Congestion																								1 3.0
Fibrosis, Focal																								3 2.7
Hematopoietic Cell Proliferation																								2 3.0
Necrosis, Focal	3																							1 4.0
Red Pulp, Depletion Cellular																								1 3.0
Thymus	I	+	+	+	+	+	+	+	+	+	I	+	+	+	I	+	I	+	+	+	+	+	43	
Atrophy																								1 3.0
Hemorrhage																								1 2.0

**INTEGUMENTARY SYSTEM**

Mammary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	46
---------------	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	----

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TDMS No. 96015 - 05

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/F 344

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
**WATER DISINFECTION BYPRODUCTS (DIBROMOACETONITRILE)**  
**CAS Number: 3252-43-5**  
**Pathologist: FARRELL, D. - HEATH, J. - JOKINEN, M.**

Date Report Reqsted: 06/09/2006

Time Report Reqsted: 12:50:37

First Dose M/F: 09/05/01 / 09/05/01

Lab: SRI

DAY ON TEST	6	6	7	7	6	7	7	7	7	4	6	7	7	6	7	7	7	7	6	6	7	7	5		
	5	9	2	2	5	3	0	3	3	3	9	0	3	3	1	2	2	1	3	3	1	7	2	3	0
	2	6	9	9	2	1	6	1	1	1	1	6	0	0	0	1	9	6	0	0	9	9	9	1	8
<b>FISCHER 344 RATS MALE</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>0 MG/L</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	2	2	2	2	3	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	5	
	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	
	<b>* TOTALS</b>																								
Dilatation	3	2	3	2																					<b>13 2.5</b>
Fibrosis																									<b>2 1 2.0</b>
Inflammation, Granulomatous, Focal																									<b>3 1 3.0</b>
Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	<b>50 2</b>	
Cyst Epithelial Inclusion																									

**MUSCULOSKELETAL SYSTEM**

Bone	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	<b>50</b>	
Skeletal Muscle																									<b>1</b>

**NERVOUS SYSTEM**

Brain	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	<b>50</b>	
Compression, Focal	3																								<b>5 3.0</b>
Hemorrhage, Focal		3																							<b>3 4 3.3</b>
Peripheral Nerve																									<b>2</b>
Spinal Cord																									<b>3</b>

**RESPIRATORY SYSTEM**

Lung	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	<b>50</b>
------	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	-----------

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Species/Strain: RATS/F 344

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	5	9	2	2	5	3	0	3	3	3	9	0	3	3	1	2	2	1	3	3	1	7	2	3	0
	2	6	9	9	2	1	6	1	1	1	6	0	0	0	1	9	6	0	0	9	9	9	1	8	
<b>FISCHER 344 RATS MALE</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>ANIMAL ID</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>0 MG/L</b>	2	2	2	2	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	5	
	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	

**\* TOTALS**

Congestion																									3	1 3.0
Inflammation																									1	2 1.0
Metaplasia, Osseous, Focal																										1 1.0
Alveolar Epithelium, Hyperplasia																										12 1.9
Nose	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Nasolacrimal Duct, Inflammation																										2 1.5
Trachea	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	

**SPECIAL SENSES SYSTEM**

Eye	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+	A	+	+	+	+	+	48
Atrophy																	3								1 3.0
Harderian Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Hyperplasia, Lymphoid, Focal																									1 1.0
Epithelium, Hyperplasia, Focal																									3 1.3
Lacrimal Gland																									1

**URINARY SYSTEM**

Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	49	
Infarct																									2 3.5	
Nephropathy	1	2	1	2	2	1	1	2	2	3	3	2	2	2	2	2	2	2	2	2	1	1	2	2	1	48 1.8
Renal Tubule, Accumulation, Hyaline																									1 2.0	
Droplet																										

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TDMS No. 96015 - 05

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Route: DOSED WATER

Species/Strain: RATS/F 344

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WATER DISINFECTION BYPRODUCTS (DIBROMOACETONITRILE)

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	6	6	7	7	6	7	7	7	7	4	6	7	7	6	7	7	7	7	7	6	6	7	7	5	
	5	9	2	2	5	3	0	3	3	3	9	0	3	3	1	2	2	1	3	3	1	7	2	3	0
	2	6	9	9	2	1	6	1	1	1	6	0	0	0	1	9	6	0	0	9	9	9	1	8	
<b>FISCHER 344 RATS MALE</b>																									
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2	2	2	2	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	4	5
	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0
	<b>* TOTALS</b>																								
Renal Tubule, Cyst												X												2	
Renal Tubule, Pigmentation												3												2 3.0	
Urinary Bladder Hemorrhage	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
																								3 1 3.0	

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## ALIMENTARY SYSTEM

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## CARDIOVASCULAR SYSTEM

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DAY ON TEST	7	7	6	7	6	7	7	5	4	5	5	7	4	7	7	6	7	7	7	7	7	7	7	7	7	7	
	3	3	7	3	8	3	3	6	9	8	3	3	6	3	3	9	3	3	3	3	3	3	3	3	3	1	3
	0	0	5	0	9	0	0	3	6	0	5	0	1	0	0	6	0	0	1	1	1	1	1	1	1	3	0
<b>FISCHER 344 RATS MALE</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>50 MG/L</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	5	5	5	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6	7	7	7	7	7	7	7	
	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5		

**males  
(cont...)****Heart  
Cardiomyopathy**

+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
2	2	1	1	1	1	2	2	2	2	1	2	1	2	2	2	1	1	1	2	2	1	2	2	1	2	2

**ENDOCRINE SYSTEM**

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Accessory Adrenal Cortical Nodule																											
Angiectasis																											
Hyperplasia, Focal																											
Infiltration Cellular, Mixed Cell																											
Necrosis																											
Vacuolization Cytoplasmic																											
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hyperplasia, Focal																											
Necrosis																											
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Parathyroid Gland	+	+	+	M	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	M	+	+	
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Angiectasis																											
Cyst																											
Pars Distalis, Cyst							X																				
Pars Distalis, Cytoplasmic Alteration, Focal																											
Pars Distalis, Hyperplasia, Focal																											
Rathke's Cleft, Cyst																											

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x .. Lesion present

l .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

TDMS No. 96015 - 05

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/F 344

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
**WATER DISINFECTION BYPRODUCTS (DIBROMOACETONITRILE)**  
**CAS Number: 3252-43-5**  
**Pathologist: FARRELL, D. - HEATH, J. - JOKINEN, M.**

Date Report Reqsted: 06/09/2006

Time Report Reqsted: 12:50:37

First Dose M/F: 09/05/01 / 09/05/01

Lab: SRI

DAY ON TEST	7	7	6	7	6	7	7	5	4	5	5	7	4	7	7	6	7	7	7	7	7	7	7	7	7	7
	3	3	7	3	8	3	3	6	9	8	3	3	6	3	3	9	3	3	3	3	3	3	3	3	1	3
	0	0	5	0	9	0	0	3	6	0	5	0	1	0	0	6	0	0	1	1	1	1	1	1	3	0
<b>FISCHER 344 RATS MALE</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>50 MG/L</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5	5	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	7	7	7	7	7	7	7
	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	

**males  
(cont...)**

Thyroid Gland	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Cyst																										
C-cell, Hyperplasia	2	1	1	1	2		2		1		1		1		1	2	1	2	1	2	2	1	2	4	1	
Follicle, Degeneration, Cystic, Focal																										1
Follicular Cell, Hyperplasia, Focal		1					2			1																1

**GENERAL BODY SYSTEM**

Peritoneum	+	+	+	+

**GENITAL SYSTEM**

Epididymis	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Atrophy																									3

Penis																									

Preputial Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hyperplasia, Cystic																									2

Inflammation	1	1	1	2				1		3		2		2		1	1	1	2	1	1	1	1	2	

Prostate	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Inflammation	2	2	3	2			3	3	3	3	3	3	2			2		2	2	2	1	2	2	3	2

Epithelium, Hyperplasia	1	1	1	1			2		2																

Seminal Vesicle	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Atrophy, Focal																									

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TDMS No. 96015 - 05

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/F 344

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
**WATER DISINFECTION BYPRODUCTS (DIBROMOACETONITRILE)**  
**CAS Number: 3252-43-5**  
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Date Report Reqsted: 06/09/2006

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	3	3	7	3	8	3	3	6	9	8	3	3	6	3	3	9	3	3	3	3	3	3	3	3	3	1	3
	0	0	5	0	9	0	0	3	6	0	5	0	1	0	0	6	0	0	1	1	1	1	1	1	1	3	0
<b>FISCHER 344 RATS MALE</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
50 MG/L	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	5	5	5	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	7	7	7	7	7	7	
	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	males (cont...)	

Testes	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Atrophy	3																									3	3
Cyst																											
Interstitial Cell, Hyperplasia, Focal																											1

**HEMATOPOIETIC SYSTEM**

Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hyperplasia																										3	3
Hyperplasia, Histiocytic, Focal																											

Lymph Node	+																										
Deep Cervical, Hemorrhage																											
Mediastinal, Ectasia																											
Mediastinal, Hemorrhage																											
Mediastinal, Hyperplasia, Lymphoid																											
Mediastinal, Pigmentation																											
Pancreatic, Ectasia																											
Pancreatic, Hemorrhage																											
Pancreatic, Hyperplasia, Lymphoid																											

Lymph Node, Mandibular	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	

Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Ectasia																											
Hemorrhage																											
Hyperplasia, Lymphoid																											

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TDMS No. 96015 - 05

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/F 344

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
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	3	3	7	3	8	3	3	6	9	8	3	3	6	3	3	9	3	3	3	3	3	3	3	3	3	1	3
	0	0	5	0	9	0	0	3	6	0	5	0	1	0	0	6	0	0	1	1	1	1	1	1	1	3	0
<b>FISCHER 344 RATS MALE</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>50 MG/L</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	5	5	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	7	7	7	7	7	7	7	
	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	males (cont...)	

Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Accessory Spleen																										
Hematopoietic Cell Proliferation																										
Hyperplasia, Histiocytic, Focal																										
Hyperplasia, Lymphoid																										
Thymus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	3
Ectopic Parathyroid Gland																										

**INTEGUMENTARY SYSTEM**

Mammary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Dilatation																										2
Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Cyst Epithelial Inclusion																										
Hyperkeratosis, Focal																										
Inflammation, Focal																										
Epidermis, Hyperplasia, Focal																										

**MUSCULOSKELETAL SYSTEM**

Bone	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hyperostosis																										1
Skeletal Muscle																										+

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Species/Strain: RATS/F 344

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	3	3	7	3	8	3	3	6	9	8	3	3	6	3	3	9	3	3	3	3	3	3	3	3	3	1	3
	0	0	5	0	9	0	0	3	6	0	5	0	1	0	0	6	0	0	1	1	1	1	1	1	1	3	0
<b>FISCHER 344 RATS MALE</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
50 MG/L	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	5	5	5	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6	7	7	7	7	7	7	7	
	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	males (cont...)	

**NERVOUS SYSTEM**

Brain	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Compression, Focal																										3
Hemorrhage, Focal																										

**RESPIRATORY SYSTEM**

Lung	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Congestion																										
Infiltration Cellular, Mixed Cell																										
Inflammation																										
Alveolar Epithelium, Hyperplasia																										2

Nose	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
------	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

Trachea	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
---------	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

**SPECIAL SENSES SYSTEM**

Eye	+	+	+	+	+	+	+	M	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Harderian Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	2
Inflammation																										
Epithelium, Hyperplasia, Focal																										

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+ .. Tissue examined microscopically

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TDMS No. 96015 - 05

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/F 344

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
**WATER DISINFECTION BYPRODUCTS (DIBROMOACETONITRILE)**  
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DAY ON TEST	7	7	6	7	6	7	7	5	4	5	5	7	4	7	7	6	7	7	7	7	7	7	7	7	7	7	
	3	3	7	3	8	3	3	6	9	8	3	3	6	3	3	3	9	3	3	3	3	3	3	3	3	1	3
	0	0	5	0	9	0	0	3	6	0	5	0	1	0	0	6	0	0	1	1	1	1	1	1	1	3	0
<b>FISCHER 344 RATS MALE</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
50 MG/L	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	5	5	5	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6	7	7	7	7	7	7	7	
	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	males (cont...)	

Lacrimal Gland

**URINARY SYSTEM**

Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Infarct																		2								
Nephropathy	3	2	1	1	1	1	2	1	1	1	2	1	3	2	3	2	2	2	2	2	1	2	1	1	1	
Renal Tubule, Accumulation, Hyaline Droplet																		3								
Renal Tubule, Pigmentation																		3								
Urethra																										+
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

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Page 27

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TDMS No. 96015 - 05

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/F 344

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
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Date Report Reqsted: 06/09/2006

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Lab: SRI

DAY ON TEST	7	7	7	7	7	7	7	7	7	5	7	7	6	7	7	5	7	7	6	7	6	7	6	7	7	
	1	3	3	3	3	3	3	3	3	1	9	3	3	7	0	3	5	2	2	6	3	9	3	9	3	3
	0	0	0	0	0	1	1	1	1	4	4	0	0	1	6	1	9	9	9	4	0	5	0	5	0	0
<b>FISCHER 344 RATS MALE</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
50 MG/L	7	7	7	7	8	8	8	8	8	8	8	8	8	8	9	9	9	9	9	9	9	9	9	9	9	0
	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	* TOTALS

**ALIMENTARY SYSTEM**

Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Epithelium, Hyperkeratosis																										8 1.6
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	49
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	49	
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	48	
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	46	
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Angiectasis, Focal	2																									5 1.8
Congestion	2																									4 2.3
Degeneration, Cystic, Focal	2																									5 1.8
Hematopoietic Cell Proliferation																										3 1.3
Hepatodiaphragmatic Nodule																										6
Inflammation, Chronic	2	1	1	2	2	2	1																			31 1.8
Bile Duct, Hyperplasia	3	3	3	3	3	3	3	2	2	3	1		3	3	3	2	3	3	3	3	3	3	3	3	3	47 2.7
Hepatocyte, Basophilic Focus	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	32	
Hepatocyte, Clear Cell Focus	X	X		X	X	X	X	X	X				X	X	X	X	X	X	X	X	X	X	X	X	22	
Hepatocyte, Cytologic Alterations, Focal																										5 2.2

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X .. Lesion present

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TDMS No. 96015 - 05

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/F 344

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Lab: SRI

ANIMAL ID 50 MG/L	DAY ON TEST	7	7	7	7	7	7	7	7	7	5	7	7	6	7	7	5	7	7	6	7	6	7	6	7	7
		1	3	3	3	3	3	3	3	3	1	9	3	3	7	0	3	5	2	2	6	3	9	3	3	3
		0	0	0	0	0	0	1	1	1	4	4	0	0	1	6	1	9	9	9	4	0	5	0	0	0
<b>FISCHER 344 RATS MALE</b>		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
		7	7	7	7	8	8	8	8	8	8	8	8	8	9	9	9	9	9	9	9	9	9	9	9	0
		6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0
		<b>* TOTALS</b>																								
Hepatocyte, Eosinophilic Focus		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	8
Hepatocyte, Mixed Cell Focus		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	24
Hepatocyte, Necrosis	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	8 2.0
Hepatocyte, Vacuolization Cytoplasmic	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	37 2.1
Serosa, Fibrosis	2																									1 2.0
Mesentery	+																									+
Accessory Spleen	3																									1
Fat, Necrosis, Focal																										3 3 10 2.9
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Inflammation																										2 2.5
Acinus, Atrophy, Focal	2	2	3		1	2	2	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	37 1.9
Acinus, Hyperplasia, Focal																										1 2.0
Duct, Cyst																										21
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Ulcer											1															1 1.0
Epithelium, Hyperplasia																										2 1.5
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Erosion																										4 1.8
Ulcer																										2 1.5
Glands, Ectasia																										3 1.0
		1																								

**CARDIOVASCULAR SYSTEM**

\* ... Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x .. Lesion present

l .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

TDMS No. 96015 - 05

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/F 344

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
**WATER DISINFECTION BYPRODUCTS (DIBROMOACETONITRILE)**  
**CAS Number: 3252-43-5**  
**Pathologist: FARRELL, D. - HEATH, J. - JOKINEN, M.**

Date Report Reqsted: 06/09/2006

Time Report Reqsted: 12:50:37

First Dose M/F: 09/05/01 / 09/05/01

Lab: SRI

DAY ON TEST	7	7	7	7	7	7	7	7	7	5	7	7	6	7	7	5	7	7	6	7	6	7	6	7	7
	1	3	3	3	3	3	3	3	3	1	9	3	3	7	0	3	5	2	2	6	3	9	3	3	3
0	0	0	0	0	1	1	1	1	4	4	0	0	1	6	1	9	9	9	4	0	5	0	5	0	0
<b>FISCHER 344 RATS MALE</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
50 MG/L	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
	7	7	7	7	8	8	8	8	8	8	8	8	8	8	9	9	9	9	9	9	9	9	9	9	0
	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0
																									<b>* TOTALS</b>
Heart Cardiomyopathy	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	<b>50</b>
	2	2	2	2	3	1	2	2	1	2	2	2	2	2	2	1	2	2	2	2	2	2	2	1	<b>44 1.7</b>

**ENDOCRINE SYSTEM**

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	<b>50</b>
Accessory Adrenal Cortical Nodule																									<b>3 1.0</b>
Angiectasis																									<b>1 2.0</b>
Hyperplasia, Focal																									<b>7 1.9</b>
Infiltration Cellular, Mixed Cell																									<b>1 2.0</b>
Necrosis																									<b>1 3.0</b>
Vacuolization Cytoplasmic																									<b>3 1.0</b>
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	<b>50</b>
Hyperplasia, Focal																									<b>9 1.4</b>
Necrosis																									<b>1 3.0</b>
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	<b>50</b>
Parathyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	M	<b>44</b>
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	<b>50</b>
Angiectasis																									<b>8 2.1</b>
Cyst																									<b>3</b>
Pars Distalis, Cyst																									<b>2</b>
Pars Distalis, Cytoplasmic Alteration, Focal																									<b>2 1.5</b>
Pars Distalis, Hyperplasia, Focal																									<b>8 1.9</b>
Rathke's Cleft, Cyst																									<b>1</b>

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TDMS No. 96015 - 05

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/F 344

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**WATER DISINFECTION BYPRODUCTS (DIBROMOACETONITRILE)**  
**CAS Number: 3252-43-5**  
**Pathologist: FARRELL, D. - HEATH, J. - JOKINEN, M.**

Date Report Reqsted: 06/09/2006

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	1	3	3	3	3	3	3	3	3	1	9	3	3	7	0	3	5	2	2	6	3	9	3	3	3
	0	0	0	0	0	0	1	1	1	1	4	4	0	0	1	6	1	9	9	4	0	5	0	5	0
<b>FISCHER 344 RATS MALE</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>50 MG/L</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
	7	7	7	7	8	8	8	8	8	8	8	8	8	8	9	9	9	9	9	9	9	9	9	9	0
	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0
	<b>* TOTALS</b>																								
Thyroid Gland	+	+	+	+	+	+	+	+	+	A	+	+	+	A	+	+	+	+	+	+	+	+	+	47	
Cyst										X															1
C-cell, Hyperplasia	1	1	1	2	2	1	2	1	1	2	1	1	2	1	1	1	1	2	1	1	1	2	4	1	38
Follicle, Degeneration, Cystic, Focal																									1.5
Follicular Cell, Hyperplasia, Focal																									1.0
																									6 1.5

**GENERAL BODY SYSTEM**

Peritoneum	+	+																							6
------------	---	---	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	---

**GENITAL SYSTEM**

Epididymis	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Atrophy																									1 3.0
Fibrosis																									1 1.0
Penis																									1
Preputial Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Hyperplasia, Cystic																									3 2.0
Inflammation																									27 1.5
Prostate	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Inflammation	3																								29 2.5
Epithelium, Hyperplasia																									15 1.5
Seminal Vesicle	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49	
Atrophy, Focal																									1 2.0

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TDMS No. 96015 - 05

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Species/Strain: RATS/F 344

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DAY ON TEST	7	7	7	7	7	7	7	7	7	5	7	7	6	7	7	5	7	7	6	7	6	7	6	7	7
	1	3	3	3	3	3	3	3	3	1	9	3	3	7	0	3	5	2	2	6	3	9	3	3	3
	0	0	0	0	0	1	1	1	1	4	4	0	0	1	6	1	9	9	9	4	0	5	0	0	0
<b>FISCHER 344 RATS MALE</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
50 MG/L	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
	7	7	7	7	8	8	8	8	8	8	8	8	8	8	9	9	9	9	9	9	9	9	9	9	0
	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0
	<b>* TOTALS</b>																								

Testes	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Atrophy	4																									10 3.2
Cyst																										1
Interstitial Cell, Hyperplasia, Focal																										4 1.5

**HEMATOPOIETIC SYSTEM**

Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Hyperplasia	3																									5 3.0
Hyperplasia, Histiocytic, Focal																										1 2.0

Lymph Node	+																									24
Deep Cervical, Hemorrhage																										1 3.0
Mediastinal, Ectasia																										1 3.0
Mediastinal, Hemorrhage																										2 3.0
Mediastinal, Hyperplasia, Lymphoid																										2 3.0
Mediastinal, Pigmentation																										1 3.0
Pancreatic, Ectasia																										2 3.0
Pancreatic, Hemorrhage																										3 3.0
Pancreatic, Hyperplasia, Lymphoid																										1 3.0

Lymph Node, Mandibular	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	0
------------------------	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Ectasia																										2 3.0
Hemorrhage																										1 2.0
Hyperplasia, Lymphoid																										4 3.0

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TDMS No. 96015 - 05

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/F 344

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
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**CAS Number: 3252-43-5**  
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First Dose M/F: 09/05/01 / 09/05/01

Lab: SRI

DAY ON TEST	7	7	7	7	7	7	7	7	7	5	7	7	6	7	7	5	7	7	6	7	6	7	6	7	7
	1	3	3	3	3	3	3	3	3	1	9	3	3	7	0	3	5	2	2	6	3	9	3	3	3
0	0	0	0	0	0	1	1	1	1	4	4	0	0	1	6	1	9	9	9	4	0	5	0	0	0
<b>FISCHER 344 RATS MALE</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>ANIMAL ID</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>50 MG/L</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
	7	7	7	7	8	8	8	8	8	8	8	8	8	9	9	9	9	9	9	9	9	9	9	9	0
	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0
	<b>* TOTALS</b>																								

Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Accessory Spleen																									1
Hematopoietic Cell Proliferation																									4 3.0
Hyperplasia, Histiocytic, Focal																									1 4.0
Hyperplasia, Lymphoid																									1 2.0
Thymus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Ectopic Parathyroid Gland																									1 3.0

**INTEGUMENTARY SYSTEM**

Mammary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Dilatation																									9 2.7
Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Cyst Epithelial Inclusion																									2
Hyperkeratosis, Focal																									2 3.0
Inflammation, Focal																									1 3.0
Epidermis, Hyperplasia, Focal																									1 3.0

**MUSCULOSKELETAL SYSTEM**

Bone	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Hyperostosis																									1 1.0
Skeletal Muscle																									3

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	1	3	3	3	3	3	3	3	3	1	9	3	3	7	0	3	5	2	2	6	3	9	3	3	0	0
	0	0	0	0	0	1	1	1	1	1	4	0	0	1	6	1	9	9	9	4	0	5	0	0	0	0
<b>FISCHER 344 RATS MALE</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>ANIMAL ID</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>50 MG/L</b>	7	7	7	7	8	8	8	8	8	8	8	8	9	9	9	9	9	9	9	9	9	9	9	9	9	0
	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	* TOTALS

## **NERVOUS SYSTEM**

## RESPIRATORY SYSTEM

Lung	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Congestion																				3	1 3.0
Infiltration Cellular, Mixed Cell																				3	2 3.0
Inflammation																				1	2 1.0
Alveolar Epithelium, Hyperplasia																				2	10 1.7

## SPECIAL SENSES SYSTEM

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#### I .. Insufficient tissue

M .. Missing tissue

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Page 34

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	1	3	3	3	3	3	3	3	3	1	9	3	3	7	0	3	5	2	2	6	3	9	3	3	3
	0	0	0	0	0	1	1	1	1	4	4	0	0	1	6	1	9	9	9	4	0	5	0	0	0
<b>FISCHER 344 RATS MALE</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
50 MG/L	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
	7	7	7	7	8	8	8	8	8	8	8	8	8	8	8	9	9	9	9	9	9	9	9	9	0
	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0

**\* TOTALS**

Lacrimal Gland

+ 1

**URINARY SYSTEM**

Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Infarct																								1 2.0
Nephropathy	1	1	1	1	3	1	2	2	2	2	2	3	3	1	3	1	1	2	1	2	1	2	2	47 1.7
Renal Tubule, Accumulation, Hyaline Droplet	2		2													2								7 2.3
Renal Tubule, Pigmentation																								2 3.0
Urethra																								1
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50

\* ... Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

Page 35

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

TDMS No. 96015 - 05

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/F 344

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
**WATER DISINFECTION BYPRODUCTS (DIBROMOACETONITRILE)**  
**CAS Number: 3252-43-5**  
**Pathologist: FARRELL, D. - HEATH, J. - JOKINEN, M.**

Date Report Reqsted: 06/09/2006

Time Report Reqsted: 12:50:37

First Dose M/F: 09/05/01 / 09/05/01

Lab: SRI

<b>FISCHER 344 RATS MALE</b> <b>100 MG/L</b>	ANIMAL ID	5	7	7	7	7	7	6	7	7	7	2	7	7	7	6	6	5	7	6	6	7	6	6	7
		8	2	2	2	1	2	2	9	2	2	5	2	2	1	1	9	8	3	1	7	3	8	7	2
		3	9	9	9	8	9	9	1	9	0	9	1	0	9	0	6	7	3	0	9	1	0	0	1

  

		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
		0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2
		1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5

males  
(cont...)**ALIMENTARY SYSTEM**Esophagus  
Epithelium, Hyperkeratosis

+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
2	2	2	2	2	1	2	2																			2

Intestine Large, Cecum  
Ulcer

+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
																										3

Intestine Large, Colon

+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	

Intestine Large, Rectum

+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	

Intestine Small, Duodenum  
Congestion

+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	

Intestine Small, Ileum

+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	

Intestine Small, Jejunum

+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	

Liver

+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	

Angiectasis, Focal  
Congestion

																										2

Degeneration, Cystic, Focal  
Hemorrhage

																										2

Hepatodiaphragmatic Nodule  
Inflammation, Chronic

																										1

Bile Duct, Hyperplasia

																										2

Hepatocyte, Basophilic Focus

																										X

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TDMS No. 96015 - 05

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/F 344

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**WATER DISINFECTION BYPRODUCTS (DIBROMOACETONITRILE)**  
**CAS Number: 3252-43-5**  
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Lab: SRI

DAY ON TEST	5	7	7	7	7	7	6	7	7	7	2	7	7	7	6	6	5	7	6	6	7	6	6	7	6	6	7	6	6	7						
	8	2	2	2	1	2	2	9	2	2	5	2	2	2	1	1	9	8	3	1	7	3	8	7	2	1	9	1	0	0	1	9				
	3	9	9	9	8	9	9	1	9	0	9	1	0	9	0	6	7	3	0	9	1	0	0	0	1	9	1	0	0	1	9					
<b>FISCHER 344 RATS MALE</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
<b>ANIMAL ID</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
<b>100 MG/L</b>	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1					
	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2	2	2					
	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1					
Hepatocyte, Clear Cell Focus	X	X	X				X	X			X						X		X		X		X		X		X		X		X		X			
Hepatocyte, Cytologic Alterations, Focal																																				
Hepatocyte, Eosinophilic Focus																																				
Hepatocyte, Mixed Cell Focus							X	X	X		X												X	X		X		X		X		X		X		
Hepatocyte, Necrosis																																				
Hepatocyte, Vacuolization Cytoplasmic	2	3	2	2			2	2	2	2	3	2		3	2	3	3		2	2	3	2		3	3		2	2	3	2	3	3	3			
Mesentery	+	+	+																																	
Fibrosis																																				
Pigmentation																																				
Fat, Necrosis, Focal	3		2				3																	3			3			3						
Oral Mucosa																																				
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+				
Vacuolization Cytoplasmic																																				
Acinus, Atrophy, Focal	2	2	2				2	2	1	1	1	1	2	3	1	3	2	2	1																	
Duct, Cyst							X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			
Inflammation																																				
Ulcer																																				
Epithelium, Hyperplasia																																				
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			
Erosion																																				
Fibrosis																																				
Ulcer																																				

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TDMS No. 96015 - 05

Test Type: CHRONIC

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Species/Strain: RATS/F 344

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**CAS Number: 3252-43-5**  
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DAY ON TEST	5	7	7	7	7	7	6	7	7	7	2	7	7	7	6	6	5	7	6	6	7	6	6	7		
	8	2	2	2	1	2	2	9	2	2	5	2	2	1	1	9	8	3	1	7	3	8	7	2		
	3	9	9	9	8	9	9	1	9	0	9	1	0	9	0	6	7	3	0	9	1	0	0	1	9	
<b>FISCHER 344 RATS MALE</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>100 MG/L</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	
	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	
Islets, Pancreatic Hyperplasia	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Parathyroid Gland Hyperplasia	+	+	+	+	+	+	M	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	
Pituitary Gland Angiectasis Cyst Hemorrhage Pars Distalis, Cyst Pars Distalis, Cytoplasmic Alteration, Focal Pars Distalis, Hyperplasia Pars Distalis, Hyperplasia, Focal	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	I	+	+
Thyroid Gland C-cell, Hyperplasia Follicle, Degeneration, Cystic, Focal	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
	2	2	1	2	2	2	2	2	1	+	2	1	1	1	2	1	1	1	2	2	1	2	2	1	2	2

**GENERAL BODY SYSTEM**Tissue NOS  
Abdominal, Fibrosis+  
3**GENITAL SYSTEM**

Coagulating Gland

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TDMS No. 96015 - 05

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	8	2	2	2	1	2	2	9	2	2	5	2	2	1	1	9	8	3	1	7	3	8	7	2		
	3	9	9	9	8	9	9	1	9	0	9	1	0	9	0	6	7	3	0	9	1	0	0	1	9	
<b>FISCHER 344 RATS MALE</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>ANIMAL ID</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>100 MG/L</b>	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	
	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	
Epididymis	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Inflammation		2																								
Preputial Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Cyst																										
Degeneration, Cystic																										
Hyperplasia, Cystic																										
Inflammation		2	2	3	1	1	3	1	1	1	2	4							1	2	2	2	2	2	2	
Prostate	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Inflammation		3	2	3	2	2	3	2	2	3	2	4		2	3	3	2	3	2	3	2	3	2	3	2	
Epithelium, Hyperplasia																										
Seminal Vesicle	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Epithelium, Hyperplasia																			2							
Testes	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Atrophy		3		3																						
Hemorrhage																										
Interstitial Cell, Hyperplasia, Focal	2																		1							3

**HEMATOPOIETIC SYSTEM**

Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hyperplasia																			3							
Lymph Node	+																									
Mediastinal, Ectasia																										
Mediastinal, Hemorrhage																			3							

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TDMS No. 96015 - 05

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/F 344

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	8	2	2	2	1	2	2	9	2	2	5	2	2	1	1	9	8	3	1	7	3	8	7	2	1	0	0	1	9			
	3	9	9	9	8	9	9	1	9	0	9	1	0	9	0	6	7	3	0	9	1	0	0	1	9	1	0	0	1	9		
<b>FISCHER 344 RATS MALE</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
<b>ANIMAL ID</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
<b>100 MG/L</b>	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2			
	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5							
Mediastinal, Hyperplasia, Lymphoid																																
Pancreatic, Ectasia																																
Pancreatic, Hemorrhage																																
Pancreatic, Pigmentation																																
Lymph Node, Mandibular	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M			
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Ectasia																																
Hemorrhage																																
Hyperplasia, Histiocytic																																
Hyperplasia, Lymphoid																																
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Accessory Spleen																																
Congestion																																
Fibrosis, Focal																																
Hematopoietic Cell Proliferation																																
Hemorrhage																																
Hyperplasia, Histiocytic, Focal																																
Infiltration Cellular, Mixed Cell																																
Necrosis, Focal																																
Pigmentation																																
Lymphoid Follicle, Atrophy																																
Thymus	+	+	+	+	+	I	+	+	I	+	+	+	+	+	+	+	+	+	+	+	M	+	+	I	+	+	M	+				

**INTEGUMENTARY SYSTEM**

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	8	2	2	2	1	2	2	9	2	2	5	2	2	1	1	9	8	3	1	7	3	8	7	2	
	3	9	9	9	8	9	9	1	9	0	9	1	0	9	0	6	7	3	0	9	1	0	0	1	9
<b>FISCHER 344 RATS MALE</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>ANIMAL ID</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>100 MG/L</b>	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2
	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5

**males  
(cont...)**

Mammary Gland	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	
Dilatation	2		2	3			3						2	2	2											

Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Inflammation, Focal																										
Epidermis, Hyperplasia, Focal																										

**MUSCULOSKELETAL SYSTEM**

Bone	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Femur, Hyperostosis																										

Skeletal Muscle	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Fibrosis																										

**NERVOUS SYSTEM**

Brain	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Compression, Focal	3						3																			
Hemorrhage																										
Hemorrhage, Focal																										3

Peripheral Nerve	+																									

Spinal Cord	+																									

**RESPIRATORY SYSTEM**

\* ... Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

TDMS No. 96015 - 05

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/F 344

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
**WATER DISINFECTION BYPRODUCTS (DIBROMOACETONITRILE)**  
**CAS Number: 3252-43-5**  
**Pathologist: FARRELL, D. - HEATH, J. - JOKINEN, M.**

Date Report Reqsted: 06/09/2006

Time Report Reqsted: 12:50:37

First Dose M/F: 09/05/01 / 09/05/01

Lab: SRI

DAY ON TEST	5	7	7	7	7	7	6	7	7	7	2	7	7	7	6	6	5	7	6	6	7	6	6	7
	8	2	2	2	1	2	2	9	2	2	5	2	2	1	1	9	8	3	1	7	3	8	7	2
	3	9	9	9	8	9	9	1	9	0	9	1	0	9	0	6	7	3	0	9	1	0	0	1
<b>FISCHER 344 RATS MALE</b>																								
<b>ANIMAL ID</b>																								
<b>100 MG/L</b>																								
<b>males (cont...)</b>																								

Lung	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Congestion																	2	2							
Hemorrhage																									
Metaplasia, Squamous, Focal		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Alveolar Epithelium, Hyperplasia		0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	
	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	

**SPECIAL SENSES SYSTEM**

Ear	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Eye	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Atrophy																									
Cataract																									
Edema																									
Retina, Degeneration																									
Harderian Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Epithelium, Hyperplasia, Focal																									
Zymbal's Gland																									

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+ .. Tissue examined microscopically

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1) Minimal 3) Moderate

2) Mild 4) Marked

TDMS No. 96015 - 05

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/F 344

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
**WATER DISINFECTION BYPRODUCTS (DIBROMOACETONITRILE)**  
**CAS Number: 3252-43-5**  
**Pathologist: FARRELL, D. - HEATH, J. - JOKINEN, M.**

Date Report Reqsted: 06/09/2006

Time Report Reqsted: 12:50:37

First Dose M/F: 09/05/01 / 09/05/01

Lab: SRI

<b>FISCHER 344 RATS MALE</b> <b>100 MG/L</b>	<b>ANIMAL ID</b>	5	7	7	7	7	7	6	7	7	7	2	7	7	7	6	6	5	7	6	6	7	6	6	7
		8	2	2	2	1	2	2	9	2	2	5	2	2	1	1	9	8	3	1	7	3	8	7	2
		3	9	9	9	8	9	9	1	9	0	9	1	0	9	0	6	7	3	0	9	1	0	0	1

  

		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
		0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2
		1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5

males  
(cont...)**URINARY SYSTEM**

Kidney Infarct	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Mineralization	3																								
Nephropathy	1	2	2	2	1	1	1	3	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2
Renal Tubule, Accumulation, Hyaline Droplet																									
Urethra																									
Urinary Bladder Hemorrhage	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

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+ .. Tissue examined microscopically

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Page 44

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

TDMS No. 96015 - 05

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/F 344

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
**WATER DISINFECTION BYPRODUCTS (DIBROMOACETONITRILE)**  
**CAS Number: 3252-43-5**  
**Pathologist: FARRELL, D. - HEATH, J. - JOKINEN, M.**

Date Report Reqsted: 06/09/2006

Time Report Reqsted: 12:50:37

First Dose M/F: 09/05/01 / 09/05/01

Lab: SRI

DAY ON TEST	6	7	7	7	7	7	4	6	7	6	6	7	5	7	7	4	7	6	7	6	7	7	7	7	6
	9	2	3	3	3	3	9	6	2	5	6	0	6	3	3	9	2	7	2	2	3	3	2	4	9
	9	9	1	1	1	0	0	6	2	9	2	4	9	8	0	0	4	9	4	9	2	0	0	9	7
<b>FISCHER 344 RATS MALE</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>ANIMAL ID</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>100 MG/L</b>	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	2	2	2	2	3	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	5
	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0
	<b>* TOTALS</b>																								

**ALIMENTARY SYSTEM**

Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Epithelium, Hyperkeratosis	2	2	2	2	2	2	2	2	2	2	2	2	1	1	2	2	2	2	2	2	2	2	2	2	34 1.8
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Ulcer																								1 3.0	
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49	
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Congestion																								1 4.0	
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	49	
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Angiectasis, Focal	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	3 2.0
Congestion																								2 2.0	
Degeneration, Cystic, Focal																								8 2.3	
Hemorrhage																								1 4.0	
Hepatodiaphragmatic Nodule																								3	
Inflammation, Chronic																								29 1.8	
Bile Duct, Hyperplasia	3	3	3	3	3	1	3	1	4	3	3	3	1	3	3	2	2	2	3	3	3	3	3	47 2.7	
Hepatocyte, Basophilic Focus	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	23	

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1) Minimal 3) Moderate

2) Mild 4) Marked

TDMS No. 96015 - 05

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/F 344

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
**WATER DISINFECTION BYPRODUCTS (DIBROMOACETONITRILE)**  
**CAS Number: 3252-43-5**  
**Pathologist: FARRELL, D. - HEATH, J. - JOKINEN, M.**

Date Report Reqsted: 06/09/2006

Time Report Reqsted: 12:50:37

First Dose M/F: 09/05/01 / 09/05/01

Lab: SRI

FISCHER 344 RATS MALE 100 MG/L	ANIMAL ID	DAY ON TEST																								* TOTALS	
		6	7	7	7	7	7	4	6	7	6	6	7	5	7	7	4	7	6	7	6	7	7	7	7	6	
		9	2	3	3	3	3	9	6	2	5	6	0	6	3	3	9	2	7	2	2	3	3	2	4	9	
		9	9	1	1	1	0	0	6	2	9	2	4	9	8	0	0	4	9	4	9	2	0	0	9	7	
Hepatocyte, Clear Cell Focus		X	X	X	X	X	X										X	X	X	X	X					19	
Hepatocyte, Cytologic Alterations, Focal																			2								2.5
Hepatocyte, Eosinophilic Focus																											4
Hepatocyte, Mixed Cell Focus																											19
Hepatocyte, Necrosis																											7
Hepatocyte, Vacuolization Cytoplasmic		3	2	3	2	2	2			2	1	2					2		3	2	4	2					36.24
Mesentery		+	+																								
Fibrosis																											
Pigmentation																											
Fat, Necrosis, Focal																											
Oral Mucosa																											1
Pancreas		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Vacuolization Cytoplasmic																											
Acinus, Atrophy, Focal		2	3	3				2		3	1	2	3				1		1	2	1	3	1				33.19
Duct, Cyst		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	24	
Salivary Glands		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Stomach, Forestomach		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Inflammation																											
Ulcer																											
Epithelium, Hyperplasia																											
Stomach, Glandular		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Erosion																											
Fibrosis																											
Ulcer																											

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TDMS No. 96015 - 05

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/F 344

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
**WATER DISINFECTION BYPRODUCTS (DIBROMOACETONITRILE)**  
**CAS Number: 3252-43-5**  
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DAY ON TEST	6	7	7	7	7	7	4	6	7	6	6	7	5	7	7	4	7	6	7	6	7	7	7	7	6
	9	2	3	3	3	3	9	6	2	5	6	0	6	3	3	9	2	7	2	2	3	3	2	4	9
	9	9	1	1	1	0	0	6	2	9	2	4	9	8	0	0	4	9	4	9	2	0	0	9	7
<b>FISCHER 344 RATS MALE</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>ANIMAL ID</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>100 MG/L</b>	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	2	2	2	2	3	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	5
	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0
																									<b>* TOTALS</b>
Glands, Ectasia	1																								<b>3 1.0</b>
Glands, Hyperplasia																									<b>1 2.10</b>
Tongue																									<b>3</b>
Epithelium, Hyperplasia																									<b>1 2.0</b>

**CARDIOVASCULAR SYSTEM**

Blood Vessel	+																								<b>+</b>	<b>3</b>
Inflammation, Chronic																									<b>4</b>	<b>1 4.0</b>
Thrombosis																									<b>4</b>	<b>1 4.0</b>
Heart	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	<b>50</b>	
Cardiomyopathy	1	2	2	2	2	1	2	1	2	2	2	2	2	3	1	2	2	2	2	2	1	2	1	2	<b>38 1.7</b>	
Thrombosis																									<b>3 3.3</b>	

**ENDOCRINE SYSTEM**

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	<b>50</b>
Accessory Adrenal Cortical Nodule																									<b>3 1.0</b>
Cytoplasmic Alteration, Focal																									<b>2 2.0</b>
Hyperplasia, Focal																									<b>1 2.0</b>
Vacuolization Cytoplasmic																									<b>5 2.0</b>
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	<b>49</b>
Hyperplasia	1																								<b>1 4.0</b>
Hyperplasia, Focal																									<b>5 1.2</b>

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TDMS No. 96015 - 05

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/F 344

## P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

WATER DISINFECTION BYPRODUCTS (DIBROMOACETONITRILE)

CAS Number: 3252-43-5

Pathologist: FARRELL, D. - HEATH, J. - JOKINEN, M.

Date Report Reqsted: 06/09/2006

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First Dose M/F: 09/05/01 / 09/05/01

Lab: SRI

FISCHER 344 RATS MALE 100 MG/L	ANIMAL ID	DAY ON TEST	6	7	7	7	7	7	4	6	7	6	6	7	5	7	7	4	7	6	7	6	7	7	7	7	6	
			9	2	3	3	3	3	9	6	2	5	6	0	6	3	3	9	2	7	2	2	3	3	2	4	9	7
			9	9	1	1	1	0	0	6	2	9	2	4	9	8	0	0	4	9	4	9	2	0	0	9	7	
			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
			1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
			2	2	2	2	3	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	5	
			6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	
																											* TOTALS	
Islets, Pancreatic Hyperplasia			+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	2 2.0	
Parathyroid Gland Hyperplasia			+	+	+	+	+	M	+	+	M	+	+	M	+	+	+	M	+	M	+	+	+	+	+	43	2 2.0	
Pituitary Gland Angiectasis Cyst Hemorrhage Pars Distalis, Cyst Pars Distalis, Cytoplasmic Alteration, Focal Pars Distalis, Hyperplasia Pars Distalis, Hyperplasia, Focal			+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48	3 2.3	
			X					2										2									4	
																											2 3.0	
																											3	
																											3 1.3	
																											1 3.0	
																											2 2.0	
Thyroid Gland C-cell, Hyperplasia Follicle, Degeneration, Cystic, Focal			+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	49	45 1.7		
			2	2	1	3	2	1	2	2	2	2	2	1	1	1	3	2	2	2	1	2	2	2	2	2	1	1.0

## GENERAL BODY SYSTEM

Tissue NOS	+	2
Abdominal, Fibrosis		1 3.0

## GENITAL SYSTEM

Coagulating Gland	+	1
-------------------	---	---

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TDMS No. 96015 - 05

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/F 344

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
**WATER DISINFECTION BYPRODUCTS (DIBROMOACETONITRILE)**  
**CAS Number: 3252-43-5**  
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FISCHER 344 RATS MALE 100 MG/L	ANIMAL ID	DAY ON TEST																								* TOTALS	
		6	7	7	7	7	7	4	6	7	6	6	7	5	7	7	4	7	6	7	6	7	7	7	7	6	
		9	2	3	3	3	3	9	6	2	5	6	0	6	3	3	9	2	7	2	2	3	3	2	4	9	
		9	9	1	1	1	0	0	6	2	9	2	4	9	8	0	0	4	9	4	9	2	0	0	9	7	
Epididymis Inflammation		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	1 2.0
Preputial Gland Cyst		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	1
Degeneration, Cystic Hyperplasia, Cystic Inflammation																											2 3.5
		3	1	3	1	1	1																				1 3.0
Prostate Inflammation Epithelium, Hyperplasia		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	24 1.8
		1	3	2	2	2	2	3	3	2	3	2	2	3	3	3	3	3	3	3	3	3	3	2	1	2	34 2.5
Seminal Vesicle Epithelium, Hyperplasia		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	5 1.8
Testes		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	1 2.0
Atrophy																											4 3.0
Hemorrhage																											1 2.0
Interstitial Cell, Hyperplasia, Focal																											7 1.7

**HEMATOPOIETIC SYSTEM**

Bone Marrow Hyperplasia	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	4 3.0	
Lymph Node Mediastinal, Ectasia Mediastinal, Hemorrhage	+																										19	3 3.3
																											1 3.0	

\* ... Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x .. Lesion present

l .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

TDMS No. 96015 - 05

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/F 344

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
**WATER DISINFECTION BYPRODUCTS (DIBROMOACETONITRILE)**  
**CAS Number: 3252-43-5**  
**Pathologist: FARRELL, D. - HEATH, J. - JOKINEN, M.**

Date Report Reqsted: 06/09/2006

Time Report Reqsted: 12:50:37

First Dose M/F: 09/05/01 / 09/05/01

Lab: SRI

DAY ON TEST	6	7	7	7	7	7	4	6	7	6	6	7	5	7	7	4	7	6	7	6	7	7	7	7	6
	9	2	3	3	3	3	9	6	2	5	6	0	6	3	3	9	2	7	2	2	3	3	2	4	9
	9	9	1	1	1	0	0	6	2	9	2	4	9	8	0	0	4	9	4	9	2	0	0	9	7
<b>FISCHER 344 RATS MALE</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>ANIMAL ID</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>100 MG/L</b>	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	2	2	2	2	3	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	5
	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0
	<b>* TOTALS</b>																								
Mediastinal, Hyperplasia, Lymphoid																									
Pancreatic, Ectasia																									
Pancreatic, Hemorrhage																									
Pancreatic, Pigmentation																									
Lymph Node, Mandibular	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Ectasia																									
Hemorrhage																									
Hyperplasia, Histiocytic																									
Hyperplasia, Lymphoid																									
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Accessory Spleen																									
Congestion																									
Fibrosis, Focal																									
Hematopoietic Cell Proliferation																									
Hemorrhage																									
Hyperplasia, Histiocytic, Focal																									
Infiltration Cellular, Mixed Cell																									
Necrosis, Focal																									
Pigmentation																									
Lymphoid Follicle, Atrophy																									
Thymus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	44

**INTEGUMENTARY SYSTEM**

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I .. Insufficient tissue

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TDMS No. 96015 - 05

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/F 344

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
**WATER DISINFECTION BYPRODUCTS (DIBROMOACETONITRILE)**  
**CAS Number: 3252-43-5**  
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First Dose M/F: 09/05/01 / 09/05/01

Lab: SRI

<b>FISCHER 344 RATS MALE</b> <b>100 MG/L</b>	ANIMAL ID	6	7	7	7	7	7	4	6	7	6	6	7	5	7	7	4	7	6	7	6	7	7	7	6
		9	2	3	3	3	3	9	6	2	5	6	0	6	3	3	9	2	7	2	2	3	3	2	4
		9	9	1	1	1	0	0	6	2	9	2	4	9	8	0	0	4	9	4	9	2	0	0	9

\* TOTALS

Mammary Gland Dilatation	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	M	+	+	+	+	47
					2						2			3			3	2		3		3		2	14 2.4

  

Skin Inflammation, Focal Epidermis, Hyperplasia, Focal	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
																									1 3.0

  

																									3
																									2 3.0

**MUSCULOSKELETAL SYSTEM**

Bone Femur, Hyperostosis	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	1 2.0
Skeletal Muscle Fibrosis																									1 2.0

**NERVOUS SYSTEM**

Brain Compression, Focal Hemorrhage Hemorrhage, Focal	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	12 2.9
																									1 4.0

Peripheral Nerve																									4
------------------	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	---

Spinal Cord																									5
-------------	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	---

**RESPIRATORY SYSTEM**

\* ... Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

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x .. Lesion present

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M .. Missing tissue

A .. Autolysis precludes evaluation

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1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

TDMS No. 96015 - 05

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/F 344

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
**WATER DISINFECTION BYPRODUCTS (DIBROMOACETONITRILE)**  
**CAS Number: 3252-43-5**  
**Pathologist: FARRELL, D. - HEATH, J. - JOKINEN, M.**

Date Report Reqsted: 06/09/2006

Time Report Reqsted: 12:50:37

First Dose M/F: 09/05/01 / 09/05/01

Lab: SRI

<b>FISCHER 344 RATS MALE</b> <b>100 MG/L</b>	ANIMAL ID	6	7	7	7	7	7	4	6	7	6	6	7	5	7	7	4	7	6	7	6	7	7	7	7	6
		9	2	3	3	3	3	9	6	2	5	6	0	6	3	3	9	2	7	2	2	3	3	2	4	
		9	9	1	1	1	0	0	6	2	9	2	4	9	8	0	0	4	9	4	9	2	0	0	9	7
<b>* TOTALS</b>																										

Lung	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Congestion																										2 2.0
Hemorrhage																										1 2.0
Metaplasia, Squamous, Focal																										1 2.0
Alveolar Epithelium, Hyperplasia																										2 1 8 1.8
Nose	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Foreign Body																										1 1.0
Inflammation																										1 1.0
Trachea	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	

**SPECIAL SENSES SYSTEM**

Ear																										1
Eye	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	48	
Atrophy																										1 3.0
Cataract																										1 3.0
Edema																										1 3.0
Retina, Degeneration																										1 3.0
Harderian Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Epithelium, Hyperplasia, Focal																										1 1.0
Zymbal's Gland										+																2

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1) Minimal 3) Moderate

2) Mild 4) Marked

TDMS No. 96015 - 05

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/F 344

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
**WATER DISINFECTION BYPRODUCTS (DIBROMOACETONITRILE)**  
**CAS Number: 3252-43-5**  
**Pathologist: FARRELL, D. - HEATH, J. - JOKINEN, M.**

Date Report Reqsted: 06/09/2006

Time Report Reqsted: 12:50:37

First Dose M/F: 09/05/01 / 09/05/01

Lab: SRI

<b>FISCHER 344 RATS MALE</b> <b>100 MG/L</b>	ANIMAL ID	6	7	7	7	7	7	4	6	7	6	6	7	5	7	7	4	7	6	7	6	7	7	7	7	6
		9	2	3	3	3	3	9	6	2	5	6	0	6	3	3	9	2	7	2	2	3	3	2	4	
		9	9	1	1	1	0	0	6	2	9	2	4	9	8	0	0	4	9	4	9	2	0	0	9	7
<b>* TOTALS</b>																										

**URINARY SYSTEM**

Kidney Infarct	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Mineralization																										2 2.0
Nephropathy	1	2	1	2	2	1	3	1		2	1	1	1	3	3		1	2	2	3	3	2	3	1	1 1.0	
Renal Tubule, Accumulation, Hyaline Droplet																										45 1.6
Urethra																										1 1.0
Urinary Bladder Hemorrhage	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49	
																										1 3.0

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TDMS No. 96015 - 05

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/F 344

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
**WATER DISINFECTION BYPRODUCTS (DIBROMOACETONITRILE)**  
**CAS Number: 3252-43-5**  
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DAY ON TEST	7	7	7	7	7	7	7	6	7	7	7	6	7	6	6	6	7	7	7	7	7	5	7		
	2	2	2	3	3	3	2	3	8	2	2	2	9	2	9	8	8	8	3	3	3	1	3	0	
	9	9	9	0	0	0	0	1	1	9	9	9	5	9	9	9	0	1	1	1	1	0	0	8	4
<b>FISCHER 344 RATS MALE</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>ANIMAL ID</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>200 MG/L</b>	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	6	7	7	7	7	7	7	7
	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5

**males  
(cont...)****ALIMENTARY SYSTEM**Esophagus  
Epithelium, Hyperkeratosis

+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
2	2	2	2	2	2	2	2	1	1	2	1	1	2	1	1	2	2	1	2	1	2	2	3	2

Intestine Large, Cecum

+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

Intestine Large, Colon

+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+

Intestine Large, Rectum

+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

Intestine Small, Duodenum

+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

Intestine Small, Ileum

+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

Intestine Small, Jejunum

+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

Liver

+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

Angiectasis, Focal


Congestion


Degeneration, Cystic, Focal

2	2	1	2	2	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	1

Hepatodiaphragmatic Nodule

X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

Inflammation, Chronic

2	2	1	3	3	2	2	2	3	3	2	3	3	2	2	2	2	2	2	2	2	2	2	2	1

Bile Duct, Hyperplasia

3	3	1	3	3	2	2	2	3	3	2	3	3	2	2	2	2	2	3	2	2	2	3	2	4

Hepatocyte, Basophilic Focus

X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

Hepatocyte, Clear Cell Focus

X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

Hepatocyte, Cytologic Alterations, Focal

3																								


</

TDMS No. 96015 - 05

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/F 344

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
**WATER DISINFECTION BYPRODUCTS (DIBROMOACETONITRILE)**  
**CAS Number: 3252-43-5**  
**Pathologist: FARRELL, D. - HEATH, J. - JOKINEN, M.**

Date Report Reqsted: 06/09/2006

Time Report Reqsted: 12:50:37

First Dose M/F: 09/05/01 / 09/05/01

Lab: SRI

FISCHER 344 RATS MALE 200 MG/L	ANIMAL ID	Day On Test																								
		7	7	7	7	7	7	6	7	7	7	6	7	6	6	6	7	7	7	7	7	5	7			
		2	2	2	3	3	3	2	3	8	2	2	2	9	2	9	8	8	8	3	3	3	1	3	0	
		9	9	9	0	0	0	0	1	1	9	9	9	5	9	9	0	1	1	1	1	0	0	8	4	
Hepatocyte, Mixed Cell Focus		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
Hepatocyte, Necrosis		2	2	3	2	2											3	3	3	2	2	2	2	3	2	
Hepatocyte, Vacuolization Cytoplasmic		5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6	7	7	7	7	7	7	7		
Mesentery		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
Fat, Necrosis, Focal		3	3																							
Oral Mucosa																										+
Pancreas		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Hyperplasia, Lymphoid																										
Lipomatosis																										
Acinus, Atrophy, Focal		1	2	2			4		2	3		2	3	2	1	3		2	2		2	2	1		2	
Acinus, Atrophy, Diffuse																										
Acinus, Hyperplasia, Focal																										
Duct, Cyst																										
Salivary Glands		X						X	X	X	X		X				X				X	X				
Atrophy, Focal																										
Vacuolization Cytoplasmic																										
Stomach, Forestomach		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Ulcer																										
Epithelium, Cyst																										
Epithelium, Hyperkeratosis																										
Epithelium, Hyperplasia																										
Stomach, Glandular		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Cyst																										
Erosion																										

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+ .. Tissue examined microscopically

x .. Lesion present

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TDMS No. 96015 - 05

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/F 344

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
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Lab: SRI

<b>FISCHER 344 RATS MALE</b> <b>200 MG/L</b>	ANIMAL ID	7	7	7	7	7	7	7	6	7	7	7	6	7	6	6	6	7	7	7	7	7	5	7	
		2	2	2	3	3	3	2	3	8	2	2	2	9	2	9	8	8	8	3	3	3	1	3	0
		9	9	9	0	0	0	0	1	1	9	9	9	5	9	9	9	0	1	1	1	1	0	0	8

males  
(cont...)

Islets, Pancreatic Hyperplasia	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Parathyroid Gland Hyperplasia	+	+	+	+	+	+	+	M	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	
Pituitary Gland Angiectasis Cyst Hemorrhage	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Pars Distalis, Cytoplasmic Alteration, Focal																										
Pars Distalis, Hyperplasia																										
Pars Distalis, Hyperplasia, Focal																										
Thyroid Gland C-cell, Hyperplasia	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A	
	1	2	2	2	2	2		2	2	2	2	2	2	2	2	2	1	1	1	1	2	2	2	2	2	
Follicle, Pigmentation, Focal																										
Follicular Cell, Hyperplasia, Focal																										

**GENERAL BODY SYSTEM**

Peritoneum Inflammation

Tissue NOS Abdominal, Fibrosis

\* ... Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x .. Lesion present

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Species/Strain: RATS/F 344

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
**WATER DISINFECTION BYPRODUCTS (DIBROMOACETONITRILE)**  
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Lab: SRI

<b>FISCHER 344 RATS MALE</b> <b>ANIMAL ID</b> <b>200 MG/L</b>	DAY ON TEST	7 7 7 7 7 7 7 6 7 7 7 6 7 6 6 6 6 7 7 7 7 7 7 5 7
		2 2 2 3 3 3 2 3 8 2 2 2 9 2 9 8 8 8 3 3 3 3 3 3 1 3 0
		9 9 9 0 0 0 0 1 1 9 9 9 5 9 9 0 1 1 1 1 0 0 8 4

  

		males (cont...)
--	--	--------------------

**GENITAL SYSTEM**

Epididymis	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Granuloma Sperm	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Epithelium, Vacuolization Cytoplasmic	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Preputial Gland	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Degeneration, Cystic	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	7	7	7	7	7
Hyperplasia, Cystic	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2
Inflammation	2	2																				
Prostate	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Inflammation	3		2	1	3	2	3	2	2	2	3	2	3	2	1	3	3	1	2	2	3	
Epithelium, Hyperplasia																						
Seminal Vesicle	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Testes	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Atrophy	3																					
Hemorrhage																						
Inflammation, Granulomatous																						
Interstitial Cell, Hyperplasia, Focal																						

**HEMATOPOIETIC SYSTEM**

Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Hyperplasia																					
Hyperplasia, Histiocytic, Focal																					

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x .. Lesion present

l .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

TDMS No. 96015 - 05

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/F 344

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
**WATER DISINFECTION BYPRODUCTS (DIBROMOACETONITRILE)**  
**CAS Number: 3252-43-5**  
**Pathologist: FARRELL, D. - HEATH, J. - JOKINEN, M.**

Date Report Reqsted: 06/09/2006

Time Report Reqsted: 12:50:37

First Dose M/F: 09/05/01 / 09/05/01

Lab: SRI

DAY ON TEST	7	7	7	7	7	7	7	6	7	7	7	6	7	6	6	6	7	7	7	7	7	5	7	
	2	2	2	3	3	3	2	3	8	2	2	2	9	2	9	8	8	8	3	3	3	1	3	0
	9	9	9	0	0	0	0	1	1	9	9	9	5	9	9	9	0	1	1	1	1	0	0	8
<b>FISCHER 344 RATS MALE</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>ANIMAL ID</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>200 MG/L</b>	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	7	7	7	7	7	7	7
	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4

**males  
(cont...)**

Lymph Node	+	+	+	+	+																			
Ectasia																								
Fibrosis																								
Bronchial, Hyperplasia, Lymphoid																								
Medastinal, Ectasia																								
Medastinal, Hemorrhage																								
Medastinal, Hyperplasia, Lymphoid																								
Pancreatic, Ectasia																								
Pancreatic, Hemorrhage																								
Lymph Node, Mandibular	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Atrophy																								
Ectasia																								
Hemorrhage																								
Hyperplasia, Histiocytic																								
Hyperplasia, Lymphoid																								
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Fibrosis, Focal																								
Hematopoietic Cell Proliferation																								
Hemorrhage																								
Hyperplasia, Histiocytic, Focal																								
Lymphoid Follicle, Atrophy																								
Thymus	+	+	I	+	+	+	+	+	+	+	+	+	+	+	+	+	I	I	+	+	+	+	+	+
Hyperplasia, Lymphoid																								

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+ .. Tissue examined microscopically

x .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

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TDMS No. 96015 - 05

**Test Type:** CHRONIC

**Route:** DOSED WATER

**Species/Strain:** RATS/F 344

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
**WATER DISINFECTION BYPRODUCTS (DIBROMOACETONITRILE)**  
**CAS Number: 3252-43-5**  
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## Lab: SRI

DAY ON TEST	7	7	7	7	7	7	7	7	6	7	7	7	6	7	6	6	6	7	7	7	7	7	5	7	
	2	2	2	3	3	3	2	3	8	2	2	2	9	2	9	8	8	3	3	3	3	3	1	3	0
	9	9	9	0	0	0	0	1	1	9	9	9	5	9	9	9	0	1	1	1	1	0	0	8	4
<b>FISCHER 344 RATS MALE</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>ANIMAL ID</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>200 MG/L</b>	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	5	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	7	7	7	7	7	7	7
	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5

## **INTEGUMENTARY SYSTEM**

## MUSCULOSKELETAL SYSTEM

## Skeletal Muscle

## **NERVOUS SYSTEM**

# **RESPIRATORY SYSTEM**

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x .. Lesion present

#### I .. Insufficient tissue

M .. Missing tissue

#### A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

Page 60

#### 1-4 .. Lesion qualified as

1) Minimal 3) Moderate

2) Mild      4) Marked

**TDMS No. 96015 - 05**

**Test Type: CHRONIC**

**Route:** DOSED WATER

**Species/Strain:** RATS/F 344

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
**WATER DISINFECTION BYPRODUCTS (DIBROMOACETONITRILE)**  
**CAS Number:** 3252-43-5  
**Pathologist:** FARRELL, D. - HEATH, J. - JOKINEN, M.

Date Report Registered: 06/09/2006

Time Report Requested: 12:50:37

**First Dose M/F:** 09/05/01 / 09/05/01

Lab: SRI

Pleura

## **SPECIAL SENSES SYSTEM**

## **URINARY SYSTEM**

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x .. Lesion present

| .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild      4) Marked

TDMS No. 96015 - 05

**Test Type: CHRONIC**

**Route:** DOSED WATER

**Species/Strain:** RATS/F 344

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
**WATER DISINFECTION BYPRODUCTS (DIBROMOACETONITRILE)**  
**CAS Number: 3252-43-5**  
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**Date Report Registered:** 06/09/2006

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**First Dose M/F:** 09/05/01 / 09/05/01

## Lab: SRI

DAY ON TEST	7	7	7	7	7	7	7	7	6	7	7	7	6	7	6	6	6	7	7	7	7	5	7	
	2	2	2	3	3	3	2	3	8	2	2	2	9	2	9	8	8	3	3	3	3	1	3	0
	9	9	9	0	0	0	0	1	1	9	9	9	5	9	9	9	0	1	1	1	1	0	0	4

.....

FISCHER 344 RATS MALE	ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
200 MG/L		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
	5	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	7	7	7	7	7	
	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	

males  
(cont...)

## Renal Tubule, Accumulation, Hyaline Droplet

### Renal Tubule, Cyst

## Renal Tubule, Pigmentation

3

## Urinary Bladder

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x .. Lesion present

#### I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified a

1) Minimal    3) Moderate  
2) Mild        4) Marked

TDMS No. 96015 - 05

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/F 344

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
**WATER DISINFECTION BYPRODUCTS (DIBROMOACETONITRILE)**  
**CAS Number: 3252-43-5**  
**Pathologist: FARRELL, D. - HEATH, J. - JOKINEN, M.**

Date Report Reqsted: 06/09/2006

Time Report Reqsted: 12:50:37

First Dose M/F: 09/05/01 / 09/05/01

Lab: SRI

DAY ON TEST	7	7	7	7	7	7	7	7	0	7	3	7	7	7	6	7	7	7	7	7	7	5	7	7	
	2	2	1	3	3	2	2	2	3	1	3	8	2	2	3	3	3	3	3	3	2	2	9	3	3
	9	9	4	0	0	9	2	9	0	3	0	3	9	9	0	6	0	1	1	1	9	9	2	0	0
<b>FISCHER 344 RATS MALE</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>ANIMAL ID</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>200 MG/L</b>	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2
	7	7	7	7	8	8	8	8	8	8	8	8	8	8	9	9	9	9	9	9	9	9	9	9	0
	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0
	<b>* TOTALS</b>																								

**ALIMENTARY SYSTEM**

Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	<b>50</b>		
Epithelium, Hyperkeratosis	2	2	2	1	2	2	2	2	2	2	2	2	2	2	3	2	2	2	2	2	2	2	2	<b>46</b>	<b>1.9</b>	
Intestine Large, Cecum	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	<b>47</b>		
Intestine Large, Colon	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	<b>47</b>		
Intestine Large, Rectum	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	<b>49</b>		
Intestine Small, Duodenum	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	<b>48</b>		
Intestine Small, Ileum	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	<b>47</b>		
Intestine Small, Jejunum	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	<b>47</b>		
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	<b>50</b>		
Angiectasis, Focal																								<b>2</b>	<b>3</b>	<b>1.7</b>
Congestion	2																							<b>6</b>	<b>2.5</b>	
Degeneration, Cystic, Focal																								<b>4</b>	<b>1.5</b>	
Hepatodiaphragmatic Nodule																								<b>2</b>		
Inflammation, Chronic	2																							<b>34</b>	<b>1.9</b>	
Bile Duct, Hyperplasia	3	3	3	2	3	3	3	2	2		2	3	3	1	3	2	1	3	3	2	2	2	3	3	<b>46</b>	<b>2.5</b>
Hepatocyte, Basophilic Focus	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	<b>25</b>		
Hepatocyte, Clear Cell Focus	X		X		X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	<b>22</b>		
Hepatocyte, Cytologic Alterations, Focal																								<b>6</b>	<b>2.3</b>	
Hepatocyte, Eosinophilic Focus	X	X																						<b>7</b>		

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+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

TDMS No. 96015 - 05

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/F 344

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
**WATER DISINFECTION BYPRODUCTS (DIBROMOACETONITRILE)**  
**CAS Number: 3252-43-5**  
**Pathologist: FARRELL, D. - HEATH, J. - JOKINEN, M.**

Date Report Reqsted: 06/09/2006

Time Report Reqsted: 12:50:37

First Dose M/F: 09/05/01 / 09/05/01

Lab: SRI

FISCHER 344 RATS MALE 200 MG/L	ANIMAL ID	DAY ON TEST																									
		7	7	7	7	7	7	7	0	7	3	7	7	7	6	7	7	7	7	7	7	5	7	7			
		2	2	1	3	3	2	2	3	1	3	8	2	2	3	3	3	3	3	3	2	2	9	3	3		
Hepatocyte, Mixed Cell Focus		X		X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	29		
Hepatocyte, Necrosis			2				1		2																	4	1.5
Hepatocyte, Vacuolization Cytoplasmic		1	4	1		3	3		2		2	2	2	3	2		2	2	2	2	2	2	3			29	2.3
Mesentery		+	+	+		+				+																15	
Fat, Necrosis, Focal		3	3																							7	3.0
Oral Mucosa																										3	
Pancreas		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
Hyperplasia, Lymphoid																										1	2.0
Lipomatosis																										1	3.0
Acinus, Atrophy, Focal		1	2		3	3	3		2		3	1	2	1		2	3				2	2			30	2.1	
Acinus, Atrophy, Diffuse																										1	3.0
Acinus, Hyperplasia, Focal																										1	2.0
Duct, Cyst		X		X																						16	
Salivary Glands		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
Atrophy, Focal																										1	1.0
Vacuolization Cytoplasmic																										1	3.0
Stomach, Forestomach		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
Ulcer			3			2			3																3	2.7	
Epithelium, Cyst																										X	1
Epithelium, Hyperkeratosis																										1	1.0
Epithelium, Hyperplasia																										1	7.2.1
Stomach, Glandular		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
Cyst																										1	
Erosion																										6	1.7

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+ .. Tissue examined microscopically

x .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

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BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

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2) Mild 4) Marked

TDMS No. 96015 - 05

**Test Type:** CHRONIC

**Route:** DOSED WATER

**Species/Strain:** RATS/F 344

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
**WATER DISINFECTION BYPRODUCTS (DIBROMOACETONITRILE)**  
**CAS Number:** 3252-43-5  
**Pathologist:** FARRELL, D. - HEATH, J. - JOKINEN, M.

Date Report Requested: 06/09/2006

Time Report Registered: 12:50:37

**First Dose M/F:** 09/05/01 / 09/05/01

Lab: SRI

## CARDIOVASCULAR SYSTEM

# **ENDOCRINE SYSTEM**

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x .. Lesion present

#### I .. Insufficient tissue

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1-4 .. Lesion qualified as:

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2) Mild      4) Marked

TDMS No. 96015 - 05

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/F 344

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
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**CAS Number: 3252-43-5**  
**Pathologist: FARRELL, D. - HEATH, J. - JOKINEN, M.**

Date Report Reqsted: 06/09/2006

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First Dose M/F: 09/05/01 / 09/05/01

Lab: SRI

DAY ON TEST	7	7	7	7	7	7	7	7	0	7	3	7	7	7	6	7	7	7	7	7	7	5	7	7	
	2	2	1	3	3	2	2	2	3	1	3	8	2	2	3	3	3	3	3	3	2	2	9	3	3
	9	9	4	0	0	9	2	9	0	3	0	3	9	9	0	6	0	1	1	1	9	9	2	0	0
<b>FISCHER 344 RATS MALE</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>ANIMAL ID</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>200 MG/L</b>	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2
	7	7	7	7	8	8	8	8	8	8	8	8	8	8	9	9	9	9	9	9	9	9	9	9	0
	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0
	<b>* TOTALS</b>																								

Islets, Pancreatic Hyperplasia	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
																								5 2.0
Parathyroid Gland Hyperplasia	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	47
																								2 2.0
Pituitary Gland Angiectasis	+	+	+	+	+	+	+	I	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Cyst																								6 2.8
Hemorrhage																								2 2
Pars Distalis, Cytoplasmic Alteration, Focal																								2 3.5
Pars Distalis, Hyperplasia																								2 1.5
Pars Distalis, Hyperplasia, Focal																								1 4.0
Thyroid Gland C-cell, Hyperplasia	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	46
Follicle, Pigmentation, Focal	4	2	1	3	2	2	A	2	2	+	2	2	+	1	+	2	3	2	1	3	4	2	2	44 2.0
Follicular Cell, Hyperplasia, Focal																								1 2.0
	2																							4 1.3

**GENERAL BODY SYSTEM**

Peritoneum Inflammation	+																							2
Tissue NOS Abdominal, Fibrosis	+																							1 2.0
	3																							1 3.0

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+ .. Tissue examined microscopically

x .. Lesion present

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TDMS No. 96015 - 05

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/F 344

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
**WATER DISINFECTION BYPRODUCTS (DIBROMOACETONITRILE)**  
**CAS Number: 3252-43-5**  
**Pathologist: FARRELL, D. - HEATH, J. - JOKINEN, M.**

Date Report Reqsted: 06/09/2006

Time Report Reqsted: 12:50:37

First Dose M/F: 09/05/01 / 09/05/01

Lab: SRI

<b>FISCHER 344 RATS MALE</b> <b>ANIMAL ID</b> <b>200 MG/L</b>	DAY ON TEST	7 7 7 7 7 7 7 7 0 7 3 7 7 7 6 7 7 7 7 7 7 5 7 7
		2 2 1 3 3 2 2 2 3 1 3 8 2 2 3 3 3 3 3 3 3 3 2 2 9 3
		9 9 4 0 0 9 2 9 0 3 0 3 9 9 0 6 0 1 1 1 9 9 2 0 0
		<b>* TOTALS</b>

**GENITAL SYSTEM**

Epididymis	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
Granuloma Sperm																						1	3.0	
Epithelium, Vacuolization Cytoplasmic																							1	3.0
Preputial Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
Degeneration, Cystic																						1	3.0	
Hyperplasia, Cystic																						1	3.0	
Inflammation	3																					22	2.0	
Prostate	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
Inflammation	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	33	2.4	
Epithelium, Hyperplasia	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	10	1.7	
Seminal Vesicle	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
Testes	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
Atrophy																						6	3.2	
Hemorrhage																						1	3.0	
Inflammation, Granulomatous																						1	3.0	
Interstitial Cell, Hyperplasia, Focal																						2	2.0	

**HEMATOPOIETIC SYSTEM**

Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Hyperplasia																						6	2.8
Hyperplasia, Histiocytic, Focal																						1	2.0

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x .. Lesion present

l .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

TDMS No. 96015 - 05

**Test Type:** CHRONIC

**Route:** DOSED WATER

**Species/Strain:** RATS/F 344

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
**WATER DISINFECTION BYPRODUCTS (DIBROMOACETONITRILE)**  
**CAS Number:** 3252-43-5  
**Pathologist:** FARRELL, D. - HEATH, J. - JOKINEN, M.

Date Report Requested: 06/09/2006

Time Report Registered: 12:50:37

**First Dose M/F:** 09/05/01 / 09/05/01

Lab: SRI

DAY ON TEST	7	7	7	7	7	7	7	7	0	7	3	7	7	7	6	7	7	7	7	7	5	7	7
	2	2	1	3	3	2	2	2	3	1	3	8	2	2	3	3	3	3	3	3	2	9	3
	9	9	4	0	0	9	2	9	0	3	0	3	9	9	0	6	0	1	1	1	9	2	0

.....

FISCHER 344 RATS MALE	ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
200 MG/L		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
	7	7	7	7	8	8	8	8	8	8	8	8	8	9	9	9	9	9	9	9	9	9	0	
	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	

Lymph Node	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	21
Ectasia																			1 4.0
Fibrosis																			1 3.0
Bronchial, Hyperplasia, Lymphoid																			1 3.0
Mediastinal, Ectasia																			1 3.0
Mediastinal, Hemorrhage																			4 2.8
Mediastinal, Hyperplasia, Lymphoid																			1 3.0
Pancreatic, Ectasia																			2 2.5
Pancreatic, Hemorrhage																			4 3.3
<hr/>																			
Lymph Node, Mandibular	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	0
<hr/>																			
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Atrophy																			1 3.0
Ectasia																			4 3.5
Hemorrhage																			2 2.5
Hyperplasia, Histiocytic																			1 4.0
Hyperplasia, Lymphoid																			3 3.0
<hr/>																			
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Fibrosis, Focal																			1 3.0
Hematopoietic Cell Proliferation																			3 2.7
Hemorrhage																			1 4.0
Hyperplasia, Histiocytic, Focal																			1 4.0
Lymphoid Follicle, Atrophy																			1 3.0
<hr/>																			
Thymus	+	+		+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	45
Hyperplasia, Lymphoid													3						1 3.0

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x .. Lesion present

#### I .. Insufficient tissue

M., Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

Page 68

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild      4) Marked

TDMS No. 96015 - 05

**Test Type:** CHRONIC

**Route:** DOSED WATER

**Species/Strain:** RATS/F 344

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
**WATER DISINFECTION BYPRODUCTS (DIBROMOACETONITRILE)**  
**CAS Number: 3252-43-5**  
**Pathologist: FARRELL, D. - HEATH, J. - JOKINEN, M.**

Date Report Requested: 06/09/2006

Time Report Requested: 12:50:37

**First Dose M/F:** 09/05/01 / 09/05/01

Lab: SRI

## **INTEGUMENTARY SYSTEM**

## MUSCULOSKELETAL SYSTEM

## **NERVOUS SYSTEM**

## **RESPIRATORY SYSTEM**

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x .. Lesion present

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M .. Missing tissue

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Page 69

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TDMS No. 96015 - 05

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Route: DOSED WATER

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<b>FISCHER 344 RATS MALE</b> <b>200 MG/L</b>	ANIMAL ID	7	7	7	7	7	7	7	7	0	7	3	7	7	7	6	7	7	7	7	5	7	7			
		2	2	1	3	3	2	2	2	3	1	3	8	2	2	3	3	3	3	3	3	2	2	3	3	
		9	9	4	0	0	9	2	9	0	3	0	3	9	9	0	6	0	1	1	1	9	9	2	0	
.....																										
.....		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
.....		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
.....		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	
.....		7	7	7	7	8	8	8	8	8	8	8	8	8	8	9	9	9	9	9	9	9	9	9	0	
.....		6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	
.....		* <b>TOTALS</b>																								

Lung	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Congestion																									1	2.0
Hemorrhage																									1	3.0
Inflammation																									2	1.0
Alveolar Epithelium, Hyperplasia																									6	2.0
Serosa, Fibrosis																									1	2.0
Nose	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Inflammation																									2	2.0
Pleura																									1	
Trachea	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Inflammation																									1	3.0

**SPECIAL SENSES SYSTEM**

Eye	+	+	+	+	+	+	A	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	47	
Harderian Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Epithelium, Hyperplasia, Focal																									6	1.8

**URINARY SYSTEM**

Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Nephropathy	2	2	2	1	1	2	2	2	1	1	2	2	1	1	1	1	1	1	1	1	4	1	1	1	45	1.5

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TDMS No. 96015 - 05

**Test Type:** CHRONIC

**Route:** DOSED WATER

**Species/Strain:** RATS/F 344

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
**WATER DISINFECTION BYPRODUCTS (DIBROMOACETONITRILE)**  
**CAS Number:** 3252-43-5  
**Pathologist:** FARRELL, D. - HEATH, J. - JOKINEN, M.

Date Report Requested: 06/09/2006

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**First Dose M/F:** 09/05/01 / 09/05/01

Lab: SRI

\*\*\* END OF MALE DATA \*\*\*

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

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TDMS No. 96015 - 05

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Species/Strain: RATS/F 344

## P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

WATER DISINFECTION BYPRODUCTS (DIBROMOACETONITRILE)

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Lab: SRI

	6	6	7	7	7	6	6	7	7	5	7	6	5	7	7	7	7	7	7	7	5	7	6	5	7	
	7	7	3	3	3	7	2	3	2	6	3	8	8	3	3	3	1	3	3	3	3	5	3	7	3	1
	1	1	4	4	4	1	6	5	2	2	4	9	3	4	4	4	4	4	4	4	4	1	5	0	5	4
.....																										
<b>FISCHER 344 RATS FEMALE</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>0 MG/L</b>	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2
	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	

females  
(cont...)

## ALIMENTARY SYSTEM

Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	
Epithelium, Hyperkeratosis		2				2																2		2			
Intestine Large, Cecum	+	+	+	+	+	A	+	+	A	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	
Intestine Large, Colon	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	
Intestine Small, Ileum	+	+	+	+	+	A	+	+	+	+	+	+	A	+	+	+	+	+	+	+	A	+	A	+	A	+	
Intestine Small, Jejunum	+	+	+	+	+	A	+	+	A	+	+	+	A	+	+	+	+	+	+	A	+	A	+	A	+	+	
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Angiectasis, Focal															1												
Congestion																2											
Degeneration, Cystic, Focal	X														X				X								
Hepatodiaphragmatic Nodule	2	1	2		1	1	1			1	2	1		2		2	2	2	2	1		1	3	1	1		
Inflammation, Chronic																											
Thrombosis																											
Bile Duct, Hyperplasia																											
Hepatocyte, Basophilic Focus	X	X	X	X	X	X	X	X	X	1	2		1		2	3	2	2	2	2		2	X	X	X		
Hepatocyte, Clear Cell Focus																X	X	X	X	X	X		X	X	X	X	
Hepatocyte, Cytologic Alterations, Focal																											

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l .. Insufficient tissue

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2) Mild 4) Marked

TDMS No. 96015 - 05

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/F 344

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
**WATER DISINFECTION BYPRODUCTS (DIBROMOACETONITRILE)**  
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Date Report Reqsted: 06/09/2006

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First Dose M/F: 09/05/01 / 09/05/01

Lab: SRI

DAY ON TEST	6	6	7	7	7	6	6	7	7	5	7	6	5	7	7	7	7	7	7	7	5	7	6	5	7	
	7	7	3	3	3	7	2	3	2	6	3	8	8	3	3	3	1	3	3	3	3	5	3	7	3	1
	1	1	4	4	4	1	6	5	2	2	4	9	3	4	4	4	4	4	4	4	4	1	5	0	5	4
<b>FISCHER 344 RATS FEMALE</b> <b>ANIMAL ID</b> <b>0 MG/L</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2
	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	
Hepatocyte, Eosinophilic Focus	X																				X					
Hepatocyte, Mixed Cell Focus		X	X	X																		X				
Hepatocyte, Necrosis																										
Hepatocyte, Syncytial Alteration, Focal																										
Hepatocyte, Vacuolization Cytoplasmic																										
Mesentery																										
Fat, Necrosis, Focal																										
Pancreas																										
Acinus, Atrophy, Focal																										
Acinus, Hyperplasia																										
Acinus, Hyperplasia, Focal																										
Duct, Cyst																										
Salivary Glands																										
Atrophy, Focal																										
Stomach, Forestomach																										
Ulcer																										
Epithelium, Hyperplasia																										
Stomach, Glandular																										
Erosion																										
Epithelium, Hyperplasia																										
Glands, Ectasia																										
Tongue																										
Epithelium, Hyperplasia																										

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**Route:** DOSED WATER

**Species/Strain:** RATS/F 344

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Time Report Registered: 12:50:37

**First Dose M/F:** 09/05/01 / 09/05/01

## Lab: SRI

## Tooth Peridental Tissue, Inflammation

## CARDIOVASCULAR SYSTEM

## **ENDOCRINE SYSTEM**

Adrenal Medulla  
Hyperplasia, Focal + + + + + + + + + + + + + + + + + + + M + + + + +

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Lab: SRI

DAY ON TEST	6	6	7	7	7	6	6	7	7	5	7	6	5	7	7	7	7	7	7	5	7	6	5	7	
	7	7	3	3	3	7	2	3	2	6	3	8	8	3	3	3	1	3	3	3	5	3	7	3	1
	1	1	4	4	4	1	6	5	2	2	4	9	3	4	4	4	4	4	4	4	1	5	0	5	4
<b>FISCHER 344 RATS FEMALE</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>0 MG/L</b>	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2
	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5

**females  
(cont...)**

Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	
Angiectasis																										
Cyst	X	X																								
Hemorrhage																										
Hyperplasia, Histiocytic, Focal																										
Pars Distalis, Cyst															X											
Pars Distalis, Cytoplasmic Alteration, Focal																										
Pars Distalis, Hyperplasia, Focal																2										
Pars Intermedia, Hyperplasia, Focal																										
Rathke's Cleft, Cyst																										
Thyroid Gland	+	+	+	+	+	+	+	+	A	+	+	+	A	+	+	+	+	+	+	+	+	A	+	+	+	
C-cell, Hyperplasia	1	1	1	2	2		1	1		1	4	1	A	2	+	+	+	+	+	2	2	2	3	1	1	1

**GENERAL BODY SYSTEM**

NONE																									
------	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

**GENITAL SYSTEM**

Clitoral Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Degeneration, Cystic																									
Hyperplasia, Cystic																									
Inflammation																									
Ovary	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Angiectasis																									
Cyst															X										

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x .. Lesion present

l .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

TDMS No. 96015 - 05

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/F 344

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
**WATER DISINFECTION BYPRODUCTS (DIBROMOACETONITRILE)**  
**CAS Number: 3252-43-5**  
**Pathologist: FARRELL, D. - HEATH, J. - JOKINEN, M.**

Date Report Reqsted: 06/09/2006

Time Report Reqsted: 12:50:37

First Dose M/F: 09/05/01 / 09/05/01

Lab: SRI

DAY ON TEST	6	6	7	7	7	6	6	7	7	5	7	6	5	7	7	7	7	7	7	5	7	6	5	7	
	7	7	3	3	3	7	2	3	2	6	3	8	8	3	3	3	1	3	3	3	5	3	7	3	1
	1	1	4	4	4	1	6	5	2	2	4	9	3	4	4	4	4	4	4	4	1	5	0	5	4
<b>FISCHER 344 RATS FEMALE</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>0 MG/L</b>	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2
	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5

females  
(cont...)

Oviduct

Uterus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hemorrhage																										
Cervix, Hypertrophy																										
Endometrium, Hyperplasia, Cystic	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	1	2	1	2	2	1	

Vagina  
Inflammation, Suppurative**HEMATOPOIETIC SYSTEM**

Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+		
Hyperplasia																				3	3						
Hyperplasia, Histiocytic, Focal																											
Lymph Node	+																			+							
Deep Cervical, Hemorrhage																				+							
Mediastinal, Ectasia	3																										
Mediastinal, Hemorrhage	2																										
Mediastinal, Hyperplasia, Lymphoid																											
Mediastinal, Inflammation, Granulomatous																				1							
Pancreatic, Ectasia																				3							
Pancreatic, Hemorrhage																				3							
Pancreatic, Inflammation, Granulomatous																				2							
Lymph Node, Mandibular	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M		
Ectasia																				3							

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TDMS No. 96015 - 05

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/F 344

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
**WATER DISINFECTION BYPRODUCTS (DIBROMOACETONITRILE)**  
**CAS Number: 3252-43-5**  
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Date Report Reqsted: 06/09/2006

Time Report Reqsted: 12:50:37

First Dose M/F: 09/05/01 / 09/05/01

Lab: SRI

<b>FISCHER 344 RATS FEMALE</b> <b>ANIMAL ID</b> <b>0 MG/L</b>	DAY ON TEST	6 7 1	6 7 1	7 3 4	7 3 4	6 7 1	6 2 5	7 3 2	5 6 2	7 3 4	6 8 3	5 8 3	7 3 4	7 3 4	7 3 4	7 3 4	7 3 4	7 5 4	5 5 1	7 3 4	6 7 0	5 3 5	7 3 0	5 3 4
		0 0 2 0 0																						
		1 2 0 1	2 3 0 2	3 4 0 5	4 5 0 6	4 5 0 7	4 5 0 8	4 5 0 9	4 5 0 0	4 5 1 1														

females  
(cont...)

Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Ectasia	3																								
Hyperplasia, Lymphoid																									
Inflammation, Granulomatous																									
Pigmentation																									
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hematopoietic Cell Proliferation																									
Hyperplasia, Histiocytic, Focal																									
Inflammation, Granulomatous																									
Pigmentation																									
Thymus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	
Hyperplasia, Lymphoid																									3

**INTEGUMENTARY SYSTEM**

Mammary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Dilatation	4		2	4	3	2	3	2	3		3	2		4		4	4	4	2	2	2	4		4
Galactocele																								
Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Ulcer																								
Subcutaneous Tissue, Fibrosis, Focal																								2

**MUSCULOSKELETAL SYSTEM**

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M .. Missing tissue

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1) Minimal 3) Moderate

2) Mild 4) Marked

TDMS No. 96015 - 05

**Test Type: CHRONIC**

**Route:** DOSED WATER

**Species/Strain:** RATS/F 344

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
**WATER DISINFECTION BYPRODUCTS (DIBROMOACETONITRILE)**  
**CAS Number: 3252-43-5**  
**Pathologist: FARRELL, D. - HEATH, J. - JOKINEN, M.**

Date Report Registered: 06/09/2006

Time Report Requested: 12:50:37

**First Dose M/F:** 09/05/01 / 09/05/01

Lab: SRI

	6	6	7	7	7	6	6	7	7	5	7	6	5	7	7	7	7	7	7	5	7	6	5	7
DAY ON TEST	7	7	3	3	3	7	2	3	2	6	3	8	8	3	3	3	1	3	3	5	3	7	3	1
	1	1	4	4	4	1	6	5	2	2	4	9	3	4	4	4	4	4	4	1	5	0	5	4
<hr/>																								
<b>FISCHER 344 RATS FEMALE</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>0 MG/L</b>	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2
	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4

## females (cont...)

Skeletal Muscle + +

## **NERVOUS SYSTEM**

Brain  
Compression, Focal  
Hemorrhage, Focal

Peripheral Nerve + + +

Spinal Cord Atrophy, Focal + 3 + + +

# **RESPIRATORY SYSTEM**

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+ .. Tissue examined microscopically

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| .. Insufficient tissue

M.. Missing tissue

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Page 78

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild      4) Marked

TDMS No. 96015 - 05

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/F 344

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
**WATER DISINFECTION BYPRODUCTS (DIBROMOACETONITRILE)**  
**CAS Number: 3252-43-5**  
**Pathologist: FARRELL, D. - HEATH, J. - JOKINEN, M.**

Date Report Reqsted: 06/09/2006

Time Report Reqsted: 12:50:37

First Dose M/F: 09/05/01 / 09/05/01

Lab: SRI

<b>FISCHER 344 RATS FEMALE</b> <b>ANIMAL ID</b> <b>0 MG/L</b>	DAY ON TEST	6 7 1	6 7 1	7 3 4	7 3 4	6 7 1	6 2 5	7 3 2	5 6 4	7 3 9	6 8 3	5 8 3	7 3 4	7 3 4	7 3 4	7 3 4	7 3 4	7 5 4	5 5 1	7 3 5	6 7 5	5 7 0	7 3 5		
		0 0 2																							
		1 2 3	2 3 4	3 4 5	4 5 6	5 6 7	6 7 8	7 8 9	8 9 0	9 0 1	1 1 2	1 1 3	1 1 4	1 1 5	1 1 6	1 1 7	1 1 8	1 1 9	1 1 0	1 1 1	1 1 2	1 1 3	1 1 4		
females (cont...)																									
Trachea																									

**SPECIAL SENSES SYSTEM**

Eye	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Cataract																									3
Exudate																									3
Retina, Degeneration																									3
Harderian Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hyperplasia, Lymphoid, Focal																									2
Epithelium, Hyperplasia, Focal																									1

**URINARY SYSTEM**

Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Infarct																								
Nephropathy	1	1	2	2	1	1		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Pelvis, Inflammation, Chronic																								2
Renal Tubule, Accumulation, Hyaline	2	3	3					3	2										3	3	1			
Droplet																								
Renal Tubule, Cyst							X																	
Renal Tubule, Pigmentation																								3
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

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2) Mild 4) Marked

TDMS No. 96015 - 05

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/F 344

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
**WATER DISINFECTION BYPRODUCTS (DIBROMOACETONITRILE)**  
**CAS Number: 3252-43-5**  
**Pathologist: FARRELL, D. - HEATH, J. - JOKINEN, M.**

Date Report Reqsted: 06/09/2006

Time Report Reqsted: 12:50:37

First Dose M/F: 09/05/01 / 09/05/01

Lab: SRI

DAY ON TEST	4	7	7	7	6	5	7	7	7	6	7	5	7	7	7	7	6	7	7	7	7	7	5
	0	0	3	3	0	6	3	3	3	9	3	5	3	3	3	3	5	3	3	3	3	3	9
	0	2	5	5	8	3	6	6	6	6	4	0	4	4	4	4	6	4	4	4	4	4	4
<b>FISCHER 344 RATS FEMALE</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>0 MG/L</b>	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	2	2	2	2	3	3	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	5
	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8
																							<b>* TOTALS</b>

**ALIMENTARY SYSTEM**

Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	<b>49</b>
Epithelium, Hyperkeratosis	1																						<b>10 1.7</b>
Intestine Large, Cecum	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	<b>46</b>
Intestine Large, Colon	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	<b>48</b>
Intestine Large, Rectum	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	<b>49</b>
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	<b>49</b>
Intestine Small, Ileum	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	<b>45</b>
Intestine Small, Jejunum	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	<b>42</b>
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	<b>50</b>
Angiectasis, Focal																							<b>2 1.5</b>
Congestion																							<b>2 3.20</b>
Degeneration, Cystic, Focal																							<b>1 2.0</b>
Hepatodiaphragmatic Nodule	X	X	X																				<b>7</b>
Inflammation, Chronic	2	2	1																				<b>35 1.6</b>
Thrombosis																							<b>1 2.0</b>
Bile Duct, Hyperplasia																							<b>29 1.7</b>
Hepatocyte, Basophilic Focus	X	2	1																				<b>39</b>
Hepatocyte, Clear Cell Focus	X	X	X	X																			<b>11</b>
Hepatocyte, Cytologic Alterations, Focal																							<b>6 2.8</b>

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1) Minimal 3) Moderate

2) Mild 4) Marked

TDMS No. 96015 - 05

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/F 344

## P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

WATER DISINFECTION BYPRODUCTS (DIBROMOACETONITRILE)

CAS Number: 3252-43-5

Pathologist: FARRELL, D. - HEATH, J. - JOKINEN, M.

Date Report Reqsted: 06/09/2006

Time Report Reqsted: 12:50:37

First Dose M/F: 09/05/01 / 09/05/01

Lab: SRI

DAY ON TEST	4	7	7	7	6	5	7	7	7	6	7	5	7	7	7	7	6	7	7	7	7	7	5
	0	0	3	3	0	6	3	3	3	9	3	5	3	3	3	3	5	3	3	3	3	3	9
	0	2	5	5	8	3	6	6	6	6	4	0	4	4	4	4	6	4	4	4	4	4	4
<b>FISCHER 344 RATS FEMALE</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>0 MG/L</b>	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	2	2	2	2	3	3	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	5
	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8
Hepatocyte, Eosinophilic Focus																							
Hepatocyte, Mixed Cell Focus	X				X	X		X											X	X	X		
Hepatocyte, Necrosis																							
Hepatocyte, Syncytial Alteration, Focal																							
Hepatocyte, Vacuolization Cytoplasmic																							
Mesentery	1	2	1																				
Fat, Necrosis, Focal	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	20
Pancreas	3	3	2																				
Acinus, Atrophy, Focal	3		2																				
Acinus, Hyperplasia																							
Acinus, Hyperplasia, Focal	2																						
Duct, Cyst																							8
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Atrophy, Focal																							1 1.0
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Ulcer	2																						5 1.6
Epithelium, Hyperplasia	1	3																					4 2.3
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Erosion	2																						4 1.5
Epithelium, Hyperplasia																							1 2.0
Glands, Ectasia																							10 1.0
Tongue																							2
Epithelium, Hyperplasia																							1 1.0

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DAY ON TEST	4	7	7	7	6	5	7	7	7	6	7	5	7	7	7	7	6	7	7	7	7	7	5	
	0	0	3	3	0	6	3	3	3	9	3	5	3	3	3	3	5	3	3	3	3	3	3	9
	0	2	5	5	8	3	6	6	6	6	4	0	4	4	4	4	6	4	4	4	4	4	4	4
<b>FISCHER 344 RATS FEMALE</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>0 MG/L</b>	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	2	2	2	2	3	3	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	5
	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9

**\* TOTALS**Tooth  
Peridental Tissue, Inflammation1  
1 3.0**CARDIOVASCULAR SYSTEM**

Heart	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Cardiomyopathy	1	1	2		2	2		2		1	2	2	2	2	2	2	3		1	1	2	2	34 1.7
Thrombosis																							3 2.3

**ENDOCRINE SYSTEM**

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Accessory Adrenal Cortical Nodule																							6 1.3
Angiectasis	2		3																				5 2.6
Cytoplasmic Alteration, Focal																							2 2.0
Hyperplasia																							1 4.0
Hyperplasia, Focal																							2 1.5
Pigmentation																							1 3.0
Vacuolization Cytoplasmic																							9 1.9

Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Hyperplasia, Focal																							2 1.5

Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
--------------------	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	----

Parathyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	M	42
Atrophy																							1 2.0
Hyperplasia																							1 2.0

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x .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

TDMS No. 96015 - 05

**Test Type:** CHRONIC

**Route:** DOSED WATER

**Species/Strain:** RATS/F 344

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
**WATER DISINFECTION BYPRODUCTS (DIBROMOACETONITRILE)**  
**CAS Number:** 3252-43-5  
**Pathologist:** FARRELL, D. - HEATH, J. - JOKINEN, M.

Date Report Registered: 06/09/2006

Time Report Requested: 12:50:37

**First Dose M/F:** 09/05/01 / 09/05/01

## Lab: SRI

DAY ON TEST	4	7	7	7	6	5	7	7	7	6	7	5	7	7	7	7	6	7	7	7	7	7	5
	0	0	3	3	0	6	3	3	3	9	3	5	3	3	3	3	5	3	3	3	3	3	9
	0	2	5	5	8	3	6	6	6	6	4	0	4	4	4	4	6	4	4	4	4	4	4
<b>FISCHER 344 RATS FEMALE</b> <b>0 MG/L</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>ANIMAL ID</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	2	2	2	2	3	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	5
	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8

Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49	
Angiectasis							3												3	6 2.8
Cyst															X					5
Hemorrhage						1	3								4	2	3			6 2.5
Hyperplasia, Histiocytic, Focal															4					1 4.0
Pars Distalis, Cyst								X									X			4
Pars Distalis, Cytoplasmic Alteration, Focal						1														1 1.0
Pars Distalis, Hyperplasia, Focal						2			3	2				2					3	8 2.3
Pars Intermedia, Hyperplasia, Focal								2											2	1 2.0
Rathke's Cleft, Cyst																				1
<hr/>																				
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	46	
C-cell, Hyperplasia		2	1	2			2		2	3	3	2		2	2	3	2	2	2	38 1.8

## **GENERAL BODY SYSTEM**

NONE

## **GENITAL SYSTEM**

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x .. Lesion present

#### I .. Insufficient tissue

M .. Missing tissue

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Page 83

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild      4) Marked

TDMS No. 96015 - 05

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/F 344

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
**WATER DISINFECTION BYPRODUCTS (DIBROMOACETONITRILE)**  
**CAS Number: 3252-43-5**  
**Pathologist: FARRELL, D. - HEATH, J. - JOKINEN, M.**

Date Report Reqsted: 06/09/2006

Time Report Reqsted: 12:50:37

First Dose M/F: 09/05/01 / 09/05/01

Lab: SRI

DAY ON TEST	4	7	7	7	6	5	7	7	7	6	7	5	7	7	7	7	6	7	7	7	7	7	5
	0	0	3	3	0	6	3	3	3	9	3	5	3	3	3	3	5	3	3	3	3	3	9
	0	2	5	5	8	3	6	6	6	6	4	0	4	4	4	4	6	4	4	4	4	4	4
<b>FISCHER 344 RATS FEMALE</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>ANIMAL ID</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>0 MG/L</b>	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	2	2	2	2	3	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	5
	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8
																							<b>* TOTALS</b>

Oviduct	+																							1
Uterus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Hemorrhage																								1 4.0
Cervix, Hypertrophy																								1 3.0
Endometrium, Hyperplasia, Cystic	2	3	2				2	3	3	3	3	3	2		2	3	2	2	2	3	2	2	2	32 2.1
Vagina																								6
Inflammation, Suppurative																								1 2.0

**HEMATOPOIETIC SYSTEM**

Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49	
Hyperplasia																								3 3.0
Hyperplasia, Histiocytic, Focal																								1 3.0
Lymph Node	+																							21
Deep Cervical, Hemorrhage																								1 3.0
Mediastinal, Ectasia																								1 3.0
Mediastinal, Hemorrhage																								7 2.9
Mediastinal, Hyperplasia, Lymphoid																								1 3.0
Mediastinal, Inflammation, Granulomatous																								1 1.0
Pancreatic, Ectasia																								1 3.0
Pancreatic, Hemorrhage																								3 3.0
Pancreatic, Inflammation, Granulomatous																								1 2.0
Lymph Node, Mandibular	+	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	3	
Ectasia																								1 3.0

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+ .. Tissue examined microscopically

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TDMS No. 96015 - 05

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/F 344

## P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

WATER DISINFECTION BYPRODUCTS (DIBROMOACETONITRILE)

CAS Number: 3252-43-5

Pathologist: FARRELL, D. - HEATH, J. - JOKINEN, M.

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First Dose M/F: 09/05/01 / 09/05/01

Lab: SRI

DAY ON TEST	4	7	7	7	6	5	7	7	7	6	7	5	7	7	7	7	6	7	7	7	7	7	5
	0	0	3	3	0	6	3	3	3	9	3	5	3	3	3	3	5	3	3	3	3	3	9
	0	2	5	5	8	3	6	6	6	6	4	0	4	4	4	4	6	4	4	4	4	4	4
<b>FISCHER 344 RATS FEMALE</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>0 MG/L</b>	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	2	2	2	2	3	3	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	5
	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8
																							<b>* TOTALS</b>

Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Ectasia	1	3.0																					
Hyperplasia, Lymphoid	2	3.0																					
Inflammation, Granulomatous	1	2.0																					
Pigmentation	1	2.0																					
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Hematopoietic Cell Proliferation	3	4	2.8																				
Hyperplasia, Histiocytic, Focal	3	2	3.0																				
Inflammation, Granulomatous	1	3.0																					
Pigmentation	3	6	3.0																				
Thymus	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	48	
Hyperplasia, Lymphoid																							2 3.0

**INTEGUMENTARY SYSTEM**

Mammary Gland	I	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49	
Dilatation	4	3	2	2	3	2	3	2	3	4	3	4	3	3	2	2	2	2	3	3	3	2	3	
Galactocele										X													38 2.9	
Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	2	
Ulcer										3													3.0	
Subcutaneous Tissue, Fibrosis, Focal																								1 2.0

**MUSCULOSKELETAL SYSTEM**

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1-4 .. Lesion qualified as:

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2) Mild 4) Marked

TDMS No. 96015 - 05

**Test Type: CHRONIC**

**Route:** DOSED WATER

**Species/Strain:** RATS/F 344

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
**WATER DISINFECTION BYPRODUCTS (DIBROMOACETONITRILE)**  
**CAS Number: 3252-43-5**  
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**First Dose M/F:** 09/05/01 / 09/05/01

Lab: SRI

## **NERVOUS SYSTEM**

# **RESPIRATORY SYSTEM**

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+ .. Tissue examined microscopically

x .. Lesion present

#### I .. Insufficient tissue

- M .. Missing tissue
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1-4 .. Lesion qualified as:  
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TDMS No. 96015 - 05

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/F 344

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
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**CAS Number: 3252-43-5**  
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	0	0	3	3	0	6	3	3	3	9	3	5	3	3	3	3	5	3	3	3	3	3	3	9
	0	2	5	5	8	3	6	6	6	6	4	0	4	4	4	4	6	4	4	4	4	4	4	4
<b>FISCHER 344 RATS FEMALE</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>0 MG/L</b>	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	2	2	2	2	3	3	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	5
	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9
	<b>* TOTALS</b>																							
Trachea	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50

**SPECIAL SENSES SYSTEM**

Eye	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	47	
Cataract																								2	3 2.7
Exudate																								3	1 3.0
Retina, Degeneration																								2	3.0
Harderian Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Hyperplasia, Lymphoid, Focal																								1	2.0
Epithelium, Hyperplasia, Focal																								4	1.3

**URINARY SYSTEM**

Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Infarct																								1	1 1.0
Nephropathy	1	1	2				1	2	1		1	1		1	1	1	1	1	1	1	1	1	1	33 1.1	
Pelvis, Inflammation, Chronic																								1	2.0
Renal Tubule, Accumulation, Hyaline																								11	2.4
Droplet																								1	
Renal Tubule, Cyst																								1	
Renal Tubule, Pigmentation																								1	3.0
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	

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TDMS No. 96015 - 05

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/F 344

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WATER DISINFECTION BYPRODUCTS (DIBROMOACETONITRILE)

CAS Number: 3252-43-5

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DAY ON TEST	6	7	7	5	7	6	5	6	7	7	7	7	5	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	
	7	3	3	6	3	0	7	7	3	3	3	3	9	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
	2	5	5	1	5	0	6	9	5	5	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	4	4	4	4	4
<b>FISCHER 344 RATS FEMALE</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>50 MG/L</b>	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
	5	5	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	6	6	6	7	7	7	7	7	7	7	
	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5					

**females  
(cont...)**

**ALIMENTARY SYSTEM**

Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Epithelium, Hyperkeratosis	2																															
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Intestine Small, Ileum	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Intestine Small, Jejunum	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Angiectasis, Focal	2																															
Congestion																																
Hepatodiaphragmatic Nodule						X																										
Inflammation, Chronic	1	1	1	2	2	1	2	2	3	1	2	1	1	2	1	1	1	1	1	1	2	2	2	2	1	1	1	2				
Bile Duct, Hyperplasia	2	1	1	1	1	1	2	2	2	1	2	1	2	2	2	2	2	2	2	2	2	2	2	2	1	1	1	2				
Hepatocyte, Basophilic Focus	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
Hepatocyte, Clear Cell Focus						X				X		X		X		X		X		X		X		X		X		X		X		
Hepatocyte, Cytologic Alterations, Focal	2																															
Hepatocyte, Eosinophilic Focus	X					X			X		X		X		X		X		X		X		X		X		X		X			
Hepatocyte, Mixed Cell Focus							X		X		X		X		X		X		X		X		X		X		X		X			

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I .. Insufficient tissue

M .. Missing tissue

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1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

TDMS No. 96015 - 05

**Test Type:** CHRONIC

**Route:** DOSED WATER

**Species/Strain:** RATS/F 344

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
**WATER DISINFECTION BYPRODUCTS (DIBROMOACETONITRILE)**  
**CAS Number:** 3252-43-5  
**Pathologist:** FARRELL, D. - HEATH, J. - JOKINEN, M.

Date Report Requested: 06/09/2006

Time Report Registered: 12:50:37

**First Dose M/F:** 09/05/01 / 09/05/01

## Lab: SRI

## CARDIOVASCULAR SYSTEM

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x Lesion present

| Insufficient tissue

M .. Missing tissue

#### A Autolysis precludes evaluation

**BLANK** Not examined microscopically

1-4 .. Lesion qualified as:

1-4: Lesion qualified as:

1) Minimal      3) Moderate  
2) Mild          4) Marked

TDMS No. 96015 - 05

**Test Type:** CHRONIC

**Route:** DOSED WATER

**Species/Strain:** RATS/F 344

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## Lab: SRI

Cardiomyopathy  
Endocardium, Hyperplasia

## **ENDOCRINE SYSTEM**

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x .. Lesion present

I .. Insufficient tissue

..... grade  
M .. Missing tissue  
A .. Autolysis precludes evaluation  
BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:  
1) Minimal 3) Moderate  
2) Mild 4) Marked

TDMS No. 96015 - 05

**Test Type: CHRONIC**

**Route:** DOSED WATER

**Species/Strain:** RATS/F 344

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
**WATER DISINFECTION BYPRODUCTS (DIBROMOACETONITRILE)**  
**CAS Number:** 3252-43-5  
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Date Report Registered: 06/09/2006

Time Report Requested: 12:50:37

**First Dose M/F:** 09/05/01 / 09/05/01

Lab: SRI

## **GENERAL BODY SYSTEM**

NONE

## **GENITAL SYSTEM**

## **HEMATOPOIETIC SYSTEM**

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x .. Lesion present

| .. Insufficient tissue

M., Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

Page 91

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

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TDMS No. 96015 - 05

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/F 344

## P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

WATER DISINFECTION BYPRODUCTS (DIBROMOACETONITRILE)

CAS Number: 3252-43-5

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Lab: SRI

DAY ON TEST	6	7	7	5	7	6	5	6	7	7	7	7	5	7	7	7	7	7	7	7	7	7	7	7	7
	7	3	3	6	3	0	7	7	3	3	3	3	9	3	3	3	3	3	3	3	3	3	3	3	3
	2	5	5	1	5	0	6	9	5	5	6	6	6	6	6	6	6	6	6	6	6	4	4	4	4

**FISCHER 344 RATS FEMALE**

ANIMAL ID

50 MG/L	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	5	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	6	7	7	7	7	7	7
	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5

females  
(cont...)

Hyperplasia, Histiocytic, Focal  
 Hyperplasia, Reticulum Cell, Diffuse  
 Inflammation, Granulomatous

3

Lymph Node	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Medastinal, Hemorrhage																									
Medastinal, Hyperplasia, Lymphoid																									
Medastinal, Pigmentation																									
Pancreatic, Hemorrhage																									

3

Lymph Node, Mandibular	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M

Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Hyperplasia, Lymphoid																									

2

Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Hematopoietic Cell Proliferation																									
Inflammation, Granulomatous																									

3

Thymus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Hyperplasia, Lymphoid																									

3

**INTEGUMENTARY SYSTEM**

Mammary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Dilatation																									
Fibrosis																									

2

3

2

3

2

3

2

3

2

3

2

3

2

3

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+ .. Tissue examined microscopically

x .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

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1-4 .. Lesion qualified as:

1) Minimal    3) Moderate

2) Mild    4) Marked





TDMS No. 96015 - 05

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/F 344

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
**WATER DISINFECTION BYPRODUCTS (DIBROMOACETONITRILE)**  
**CAS Number: 3252-43-5**  
**Pathologist: FARRELL, D. - HEATH, J. - JOKINEN, M.**

Date Report Reqsted: 06/09/2006

Time Report Reqsted: 12:50:37

First Dose M/F: 09/05/01 / 09/05/01

Lab: SRI

DAY ON TEST	7	7	7	7	7	7	7	7	7	7	6	7	7	7	6	6	6	6	6	7	7	7	7	7
	1	3	3	3	3	3	1	3	3	3	1	6	3	3	3	3	6	8	0	2	3	3	3	3
	4	6	6	6	6	4	4	4	4	4	4	5	5	5	6	6	9	8	3	5	5	5	5	5
<b>FISCHER 344 RATS FEMALE</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>50 MG/L</b>	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	3
	7	7	7	7	8	8	8	8	8	8	8	8	8	8	9	9	9	9	9	9	9	9	9	0
	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9
	<b>* TOTALS</b>																							

**ALIMENTARY SYSTEM**

Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
Epithelium, Hyperkeratosis																								8 1.9	
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	49		
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	48		
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	48		
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
Angiectasis, Focal																								1 2.0	
Congestion																								5 2.0	
Hepatodiaphragmatic Nodule	X	X																						5	
Inflammation, Chronic	2	1	1	2	1	1	2	2	2	2	1	2	2	3	1	2	2	3	1	2	2	1	2	41 1.6	
Bile Duct, Hyperplasia	2		1	1	2	1	2	1	1		3				2					1	1	2	1	29 1.6	
Hepatocyte, Basophilic Focus	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	47		
Hepatocyte, Clear Cell Focus	X	X	X																					15	
Hepatocyte, Cytologic Alterations, Focal	4	2	3	2											1	1									10 2.1
Hepatocyte, Eosinophilic Focus																								3	
Hepatocyte, Mixed Cell Focus	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	25		

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TDMS No. 96015 - 05

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/F 344

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
**WATER DISINFECTION BYPRODUCTS (DIBROMOACETONITRILE)**  
**CAS Number: 3252-43-5**  
**Pathologist: FARRELL, D. - HEATH, J. - JOKINEN, M.**

Date Report Reqsted: 06/09/2006

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First Dose M/F: 09/05/01 / 09/05/01

Lab: SRI

DAY ON TEST	7	7	7	7	7	7	7	7	7	6	7	7	7	6	6	6	6	6	7	7	7	7	7	
	1	3	3	3	3	3	1	3	3	1	6	3	3	3	3	6	8	0	2	3	3	3	3	
	4	6	6	6	6	4	4	4	4	4	5	5	5	6	6	9	8	3	5	5	5	5	5	
<b>FISCHER 344 RATS FEMALE</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>50 MG/L</b>	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
	7	7	7	7	8	8	8	8	8	8	8	8	8	8	9	9	9	9	9	9	9	9	0	
	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	
Hepatocyte, Necrosis																								
Hepatocyte, Vacuolization Cytoplasmic	1																							
Mesentery	+																							
Accessory Spleen		+																						
Fat, Necrosis, Focal			3																					
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Acinus, Atrophy, Focal			2	1	2	2		2	2										2	1	1	1	1	20 1.5
Acinus, Atrophy, Diffuse																								1 3.0
Duct, Cyst																								13
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Inflammation																								1 2.0
Epithelium, Hyperplasia																								4 1.5
2	1																							
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Mineralization																								1 3.0
Glands, Ectasia																								1 4.1.0
1																								
Tongue																								1
Epithelium, Hyperplasia																								1 1.0
1																								

**CARDIOVASCULAR SYSTEM**

Heart	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
-------	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	----

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TDMS No. 96015 - 05

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/F 344

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
**WATER DISINFECTION BYPRODUCTS (DIBROMOACETONITRILE)**  
**CAS Number: 3252-43-5**  
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Time Report Reqsted: 12:50:37

First Dose M/F: 09/05/01 / 09/05/01

Lab: SRI

DAY ON TEST	7	7	7	7	7	7	7	7	7	7	6	7	7	7	6	6	6	6	6	7	7	7	7	7
	1	3	3	3	3	3	1	3	3	3	1	6	3	3	3	3	6	8	0	2	3	3	3	3
	4	6	6	6	6	4	4	4	4	4	4	5	5	5	6	6	9	8	3	5	5	5	5	5
<b>FISCHER 344 RATS FEMALE</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>50 MG/L</b>	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	3
	7	7	7	7	8	8	8	8	8	8	8	8	8	8	9	9	9	9	9	9	9	9	9	0
	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9
																								<b>* TOTALS</b>
Cardiomyopathy	3	1	1	2	2	1	1	2	2	2	1	2	1	2	2	2	2	1	2	1	1	1	1	<b>36 1.6</b>
Endocardium, Hyperplasia																								<b>1 2.0</b>

**ENDOCRINE SYSTEM**

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	<b>50</b>	
Accessory Adrenal Cortical Nodule																								<b>1 1.0</b>	
Angiectasis																								<b>1 3.0</b>	
Hyperplasia, Focal																								<b>9 2.0</b>	
Vacuolization Cytoplasmic																								<b>8 1.8</b>	
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	<b>50</b>	
Hyperplasia, Focal																								<b>2 1.5</b>	
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	<b>50</b>	
Hyperplasia																								<b>1 2.0</b>	
Parathyroid Gland	+	+	+	+	+	M	+	M	M	+	+	+	+	M	+	+	+	+	+	+	+	+	M	<b>42</b>	
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	<b>48</b>	
Angiectasis																	3							<b>3 3.0</b>	
Cyst																	X	X						<b>3</b>	
Hemorrhage																			4					<b>4 3.3</b>	
Pars Distalis, Cyst																	X							<b>6</b>	
Pars Distalis, Cytoplasmic Alteration, Focal																				2				<b>2 2.0</b>	
Pars Distalis, Hyperplasia, Focal																								<b>7 2.4</b>	
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	<b>48</b>	
C-cell, Hyperplasia	2	2	3	2	3		2	2	2	1	2	2	1	3	2	2	2	1	1	2	2	1	2	1	<b>44 1.8</b>

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TDMS No. 96015 - 05

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/F 344

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
**WATER DISINFECTION BYPRODUCTS (DIBROMOACETONITRILE)**  
**CAS Number: 3252-43-5**  
**Pathologist: FARRELL, D. - HEATH, J. - JOKINEN, M.**

Date Report Reqsted: 06/09/2006

Time Report Reqsted: 12:50:37

First Dose M/F: 09/05/01 / 09/05/01

Lab: SRI

<b>FISCHER 344 RATS FEMALE</b> <b>ANIMAL ID</b> <b>50 MG/L</b>	DAY ON TEST	7 7 7 7 7 7 7 7 7 7 6 7 7 7 6 6 6 6 6 6 7 7 7 7 7
		1 3 3 3 3 3 1 3 3 3 1 6 3 3 3 3 6 8 0 2 3 3 3 3 3 3
		4 6 6 6 6 4 4 4 4 4 5 5 5 5 6 6 9 8 3 5 5 5 5 5 5
.....		
0 0		
0 0		
2 3		
7 7 7 7 8 8 8 8 8 8 8 8 8 8 8 9 9 9 9 9 9 9 9 9 9 9 9 9 0		
6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 * <b>TOTALS</b>		

**GENERAL BODY SYSTEM**

NONE

**GENITAL SYSTEM**

Clitoral Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Degeneration, Cystic																						2 2.5	
Hyperplasia	2																					1 2.0	
Hyperplasia, Cystic																						3 2.0	
Inflammation																						2 2.5	
.....																							
Ovary	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Cyst							X															4	
.....																							
Uterus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Decidual Reaction																						1 3.0	
Hemorrhage																						2 3.0	
Endometrium, Hyperplasia, Cystic	2	1	2	1	2	2		1	2	2			2	2	2	2	2	1	2	2	2	1	38 1.8
.....																							
Vagina																						2	
Inflammation																						1 2.0	

**HEMATOPOIETIC SYSTEM**

Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Hyperplasia																						1 2.0

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Species/Strain: RATS/F 344

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	1	3	3	3	3	3	1	3	3	3	1	6	3	3	3	3	6	8	0	2	3	3	3	3	
	4	6	6	6	6	4	4	4	4	4	4	5	5	5	6	6	9	8	3	5	5	5	5	5	
<b>FISCHER 344 RATS FEMALE</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
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<b>50 MG/L</b>	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	3	
	7	7	7	7	8	8	8	8	8	8	8	8	8	8	9	9	9	9	9	9	9	9	9	0	
	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	
	<b>* TOTALS</b>																								
Hyperplasia, Histiocytic, Focal	3																								
Hyperplasia, Reticulum Cell, Diffuse	1																								
Inflammation, Granulomatous	1																								
Lymph Node	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	15	
Mediastinal, Hemorrhage	3																							3	6
Mediastinal, Hyperplasia, Lymphoid		3																							2.30
Mediastinal, Pigmentation																									1.30
Pancreatic, Hemorrhage																									2.30
Lymph Node, Mandibular	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	2	
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Hyperplasia, Lymphoid																									1.2.0
Inflammation, Granulomatous																									1.2.0
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Hematopoietic Cell Proliferation																									2.2.5
Inflammation, Granulomatous																									1.3.0
Thymus	+	+	+	I	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49	
Hyperplasia, Lymphoid																									1.3.0

**INTEGUMENTARY SYSTEM**

Mammary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Dilatation	4	2	3	3	3	2	2	2	3	4	3	4	3	2	2	2	2	2	2	2	2	3	3	41.2.7
Fibrosis																								1.3.0

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Route: DOSED WATER

Species/Strain: RATS/F 344

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	1	3	3	3	3	3	1	3	3	3	1	6	3	3	3	3	6	8	0	2	3	3	3	3
	4	6	6	6	6	4	4	4	4	4	4	5	5	5	5	6	6	9	8	3	5	5	5	5
<b>FISCHER 344 RATS FEMALE</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>50 MG/L</b>	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	3
	7	7	7	7	8	8	8	8	8	8	8	8	8	8	9	9	9	9	9	9	9	9	9	0
	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9
																								<b>* TOTALS</b>
Skin Ulcer	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	<b>50</b>
																								<b>1 2.0</b>

**MUSCULOSKELETAL SYSTEM**

Bone	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	<b>50</b>
------	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	-----------

**NERVOUS SYSTEM**

Brain	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	<b>50</b>
Compression, Focal																								
Hemorrhage, Focal																								
																								<b>12 2.8</b>
																								<b>1 1.0</b>
Peripheral Nerve																								<b>3</b>
Spinal Cord																								<b>3</b>

**RESPIRATORY SYSTEM**

Lung	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	<b>50</b>
Congestion																								<b>1 3.0</b>
Hyperplasia, Histiocytic, Focal																								<b>1 2.0</b>
Inflammation																								<b>1 2.0</b>
Alveolar Epithelium, Hyperplasia																								<b>5 1.2</b>
Nose	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	<b>50</b>
Nasolacrimal Duct, Inflammation																								<b>1 2.0</b>

\* ... Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

TDMS No. 96015 - 05

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/F 344

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
**WATER DISINFECTION BYPRODUCTS (DIBROMOACETONITRILE)**  
**CAS Number: 3252-43-5**  
**Pathologist: FARRELL, D. - HEATH, J. - JOKINEN, M.**

Date Report Reqsted: 06/09/2006

Time Report Reqsted: 12:50:37

First Dose M/F: 09/05/01 / 09/05/01

Lab: SRI

DAY ON TEST	7	7	7	7	7	7	7	7	7	7	6	7	7	7	6	6	6	6	6	7	7	7	7	7
	1	3	3	3	3	3	1	3	3	3	1	6	3	3	3	3	6	8	0	2	3	3	3	3
	4	6	6	6	6	4	4	4	4	4	4	5	5	5	6	6	9	8	3	5	5	5	5	5
<b>FISCHER 344 RATS FEMALE</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>50 MG/L</b>	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	3
	7	7	7	7	8	8	8	8	8	8	8	8	8	8	9	9	9	9	9	9	9	9	9	0
	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9
	<b>* TOTALS</b>																							

Trachea	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
---------	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	----

**SPECIAL SENSES SYSTEM**

Eye	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Atrophy																								2 3.0
Cataract																								2 3.0
Retina, Degeneration																								2 3.0
Harderian Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50

**URINARY SYSTEM**

Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Infarct																								1 2.0
Mineralization																								1 3.0
Nephropathy	1	1	1	1	2	2	1	1	1	1	1	1	1	1	1	1	1	3	1	1	1	1	1	36 1.2
Renal Tubule, Accumulation, Hyaline Droplet					2	2		2	2	3									2					18 2.0
Renal Tubule, Cyst																								1
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50

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TDMS No. 96015 - 05

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Route: DOSED WATER

Species/Strain: RATS/F 344

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	3	6	9	3	3	6	3	3	3	2	9	4	7	0	3	3	3	3	3	7	3	1	3	3
	4	6	6	4	4	4	4	4	4	0	9	9	2	3	5	5	5	5	5	2	5	4	5	5
<b>FISCHER 344 RATS FEMALE</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>100 MG/L</b>	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2
	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4

females  
(cont...)**ALIMENTARY SYSTEM**

Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Epithelium, Hyperkeratosis	2	3	2	2	2	2	2	2	2	2	1	2	2	2	2	2	2	2	2	2	2	2	2	2
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Angiectasis, Focal																								
Congestion																								
Degeneration, Cystic, Focal																								
Hematopoietic Cell Proliferation																								
Hepatodiaphragmatic Nodule																								
Infiltration Cellular, Lymphocyte																								
Inflammation, Chronic																								
Bile Duct, Hyperplasia																								
Hepatocyte, Basophilic Focus																								
Hepatocyte, Clear Cell Focus																								

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TDMS No. 96015 - 05

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/F 344

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Lab: SRI

DAY ON TEST	7	5	5	7	7	6	7	7	7	5	6	6	6	7	7	7	7	7	7	6	7	7	7	7
	3	6	9	3	3	6	3	3	3	2	9	4	7	0	3	3	3	3	3	7	3	1	3	3
	4	6	6	4	4	4	4	4	4	0	9	9	2	3	5	5	5	5	5	2	5	4	5	5
<b>FISCHER 344 RATS FEMALE</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>100 MG/L</b>	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2
	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4
Hepatocyte, Cytologic Alterations, Focal	2						2			1									3		4		1	
Hepatocyte, Eosinophilic Focus	X																			X		X		
Hepatocyte, Mixed Cell Focus	X						X			X										X		X		
Hepatocyte, Necrosis																			1					
Hepatocyte, Vacuolization Cytoplasmic	2	3		2	1	4	1		1		2				4	1	1		1	1	2		2	2
Mesentery																								
Fat, Necrosis, Focal																								
Oral Mucosa																								
Pancreas																								
Acinus, Atrophy, Focal	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Duct, Cyst	1	1																						
Salivary Glands																								
Stomach, Forestomach																								
Erosion																								
Inflammation																								
Ulcer																								
Epithelium, Hyperplasia																								
Stomach, Glandular																								
Erosion																								
Ulcer																								
Glands, Ectasia																								
Tongue																								

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x .. Lesion present

l .. Insufficient tissue

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1-4 .. Lesion qualified as:

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TDMS No. 96015 - 05

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/F 344

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
**WATER DISINFECTION BYPRODUCTS (DIBROMOACETONITRILE)**  
**CAS Number: 3252-43-5**  
**Pathologist: FARRELL, D. - HEATH, J. - JOKINEN, M.**

Date Report Reqsted: 06/09/2006

Time Report Reqsted: 12:50:37

First Dose M/F: 09/05/01 / 09/05/01

Lab: SRI

DAY ON TEST	7	5	5	7	7	6	7	7	7	7	5	6	6	6	7	7	7	7	7	7	7	6	7	7	7	7
FISCHER 344 RATS FEMALE	3	6	9	3	3	6	3	3	3	3	2	9	4	7	0	3	3	3	3	3	3	7	3	1	3	3
ANIMAL ID	4	6	6	4	4	4	4	4	4	4	0	9	9	2	3	5	5	5	5	5	5	2	5	4	5	5
100 MG/L	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2
	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	

females  
(cont...)

Epithelium, Hyperplasia

1                    2

**CARDIOVASCULAR SYSTEM**

Heart	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Cardiomyopathy																											
Thrombosis																											

**ENDOCRINE SYSTEM**

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Accessory Adrenal Cortical Nodule																											
Angiectasis																											
Cytoplasmic Alteration, Focal																											
Hyperplasia, Focal	2	2	2																								
Infiltration Cellular, Mixed Cell																											
Vacuolization Cytoplasmic																											

Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Angiectasis																											
Hyperplasia, Focal																											
Vacuolization Cytoplasmic, Focal																											

Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hyperplasia																											

Parathyroid Gland	+	+	+	+	+	+	M	+	+	+	+	+	+	M	+	+	+	+	M	M	+	+	+	+	+	+	

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WATER DISINFECTION BYPRODUCTS (DIBROMOACETONITRILE)

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	3	6	9	3	3	6	3	3	3	2	9	4	7	0	3	3	3	3	3	7	3	1	3	3
	4	6	6	4	4	4	4	4	4	0	9	9	2	3	5	5	5	5	5	2	5	4	5	5
<b>FISCHER 344 RATS FEMALE</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>100 MG/L</b>	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2
	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4

females  
(cont...)

Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Angiectasis																								
Cyst						X																		
Pars Distalis, Cyst																								
Pars Distalis, Hyperplasia, Focal																								
Pars Intermedia, Vacuolization																								
Cytoplasmic, Focal																								
Rathke's Cleft, Cyst																								
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
C-cell, Hyperplasia	2	1	2	1	2	2	2	2	3	2	2	2	2	1	2	1	2	2	2	2	2	2	2	2

**GENERAL BODY SYSTEM**

NONE

**GENITAL SYSTEM**

Clitoral Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Degeneration, Cystic	2					2																		
Hyperplasia, Cystic																								
Inflammation																								
Metaplasia, Squamous																								
Ovary	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Cyst																								
Oviduct																								

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	3	6	9	3	3	6	3	3	3	2	9	4	7	0	3	3	3	3	3	7	3	1	3	3
	4	6	6	4	4	4	4	4	4	0	9	9	2	3	5	5	5	5	5	2	5	4	5	5
<b>FISCHER 344 RATS FEMALE</b> <b>ANIMAL ID</b> <b>100 MG/L</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2
	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4

**females  
(cont...)**

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Uterus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Endometrium, Hyperplasia, Cystic	2	2	1	1	3		2		1	3														

---

Vagina	+																							
Inflammation																								
Epithelium, Cyst															X									

**HEMATOPOIETIC SYSTEM**

Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Lymph Node	+	+	+																					
Congestion																								
Deep Cervical, Hemorrhage																								
Mediastinal, Ectasia																								
Mediastinal, Hemorrhage																								
Mediastinal, Hyperplasia, Histiocytic																								
Mediastinal, Hyperplasia, Lymphoid																								
Pancreatic, Amyloid Deposition																								
Pancreatic, Hemorrhage																								
Lymph Node, Mandibular	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Ectasia																								
Hemorrhage																								
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x .. Lesion present

l .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

TDMS No. 96015 - 05

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/F 344

## P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

WATER DISINFECTION BYPRODUCTS (DIBROMOACETONITRILE)

CAS Number: 3252-43-5

Pathologist: FARRELL, D. - HEATH, J. - JOKINEN, M.

Date Report Reqsted: 06/09/2006

Time Report Reqsted: 12:50:37

First Dose M/F: 09/05/01 / 09/05/01

Lab: SRI

DAY ON TEST	7	5	5	7	7	6	7	7	7	7	5	6	6	6	7	7	7	7	7	7	6	7	7	7	
FISCHER 344 RATS FEMALE	3	6	9	3	3	6	3	3	3	3	2	9	4	7	0	3	3	3	3	3	7	3	1	3	3
ANIMAL ID	4	6	6	4	4	4	4	4	4	4	0	9	9	2	3	5	5	5	5	5	2	5	4	5	5
100 MG/L	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2
	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5

females  
(cont...)

Hematopoietic Cell Proliferation

4

Thymus

M + M + +

## INTEGUMENTARY SYSTEM

Mammary Gland

+ +

Dilatation

3 3 3 3 3 3 3 3 3 2 3 3 3 3 2 3 3 3 3 3 3 3 3

Fibrosis

3

Skin

+ +

Cyst Epithelial Inclusion

3

Subcutaneous Tissue, Necrosis, Fatty

## MUSCULOSKELETAL SYSTEM

Bone

+ +

Cranium, Hyperostosis

2

## NERVOUS SYSTEM

Brain

+ +

Compression, Focal

2 3 3 3 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3

Hemorrhage, Focal

1

Peripheral Nerve

+

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

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BLANK .. Not examined microscopically

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1) Minimal 3) Moderate

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TDMS No. 96015 - 05

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/F 344

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
**WATER DISINFECTION BYPRODUCTS (DIBROMOACETONITRILE)**  
**CAS Number: 3252-43-5**  
**Pathologist: FARRELL, D. - HEATH, J. - JOKINEN, M.**

Date Report Reqsted: 06/09/2006

Time Report Reqsted: 12:50:37

First Dose M/F: 09/05/01 / 09/05/01

Lab: SRI

| DAY ON TEST             | 7 | 5 | 5 | 7 | 7 | 6 | 7 | 7 | 7 | 5 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 7 |
|-------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FISCHER 344 RATS FEMALE | 3 | 6 | 9 | 3 | 3 | 6 | 3 | 3 | 3 | 2 | 9 | 4 | 7 | 0 | 3 | 3 | 3 | 3 | 3 | 7 | 3 | 1 | 3 | 3 |
| ANIMAL ID               | 4 | 6 | 6 | 4 | 4 | 4 | 4 | 4 | 4 | 0 | 9 | 9 | 2 | 3 | 5 | 5 | 5 | 5 | 5 | 2 | 5 | 4 | 5 | 5 |
| 100 MG/L                | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|                         | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|                         | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
|                         | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 |
|                         | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 |

females  
(cont...)

Spinal Cord

+

**RESPIRATORY SYSTEM**

|                                  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lung                             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Congestion                       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Hemorrhage                       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Inflammation                     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Alveolar Epithelium, Hyperplasia |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Nose                             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Trachea                          | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

**SPECIAL SENSES SYSTEM**

|                                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Eye Atrophy                    | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Harderian Gland Inflammation   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Epithelium, Hyperplasia, Focal |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

Zymbal's Gland

**URINARY SYSTEM**

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

TDMS No. 96015 - 05

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/F 344

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
**WATER DISINFECTION BYPRODUCTS (DIBROMOACETONITRILE)**  
**CAS Number: 3252-43-5**  
**Pathologist: FARRELL, D. - HEATH, J. - JOKINEN, M.**

Date Report Reqsted: 06/09/2006

Time Report Reqsted: 12:50:37

First Dose M/F: 09/05/01 / 09/05/01

Lab: SRI

| DAY ON TEST                         | 7 | 5 | 5 | 7 | 7 | 6 | 7 | 7 | 7 | 5 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 7 |   |  |
|-------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
|                                     | 3 | 6 | 9 | 3 | 3 | 6 | 3 | 3 | 3 | 2 | 9 | 4 | 7 | 0 | 3 | 3 | 3 | 3 | 3 | 7 | 3 | 1 | 3 | 3 |   |  |
|                                     | 4 | 6 | 6 | 4 | 4 | 4 | 4 | 4 | 4 | 0 | 9 | 9 | 9 | 2 | 3 | 5 | 5 | 5 | 5 | 5 | 2 | 5 | 4 | 5 | 5 |  |
| <b>FISCHER 344 RATS FEMALE</b>      | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |   |  |
| ANIMAL ID                           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |   |  |
| <b>100 MG/L</b>                     | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |   |  |
|                                     | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 |   |  |
|                                     | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 |   |  |
|                                     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Kidney                              | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |  |
| Infiltration Cellular, Lymphocyte   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2 |   |   |   |   |   |   |  |
| Nephropathy                         | 2 | 1 | 1 | 1 | 2 | 2 | 1 | 2 | 1 |   | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 2 |  |
| Renal Tubule, Accumulation, Hyaline |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2 |   | 2 | 2 | 2 | 2 | 2 |  |
| Droplet                             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Renal Tubule, Hyperplasia, Focal    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Urinary Bladder                     | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |  |

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x .. Lesion present

I .. Insufficient tissue

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TDMS No. 96015 - 05

**Test Type:** CHRONIC

**Route:** DOSED WATER

**Species/Strain:** RATS/F 344

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
**WATER DISINFECTION BYPRODUCTS (DIBROMOACETONITRILE)**  
**CAS Number:** 3252-43-5  
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Date Report Requested: 06/09/2006

Time Report Requested: 12:50:37

**First Dose M/F:** 09/05/01 / 09/05/01

Lab: SRI

## **ALIMENTARY SYSTEM**

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| .. Insufficient tissue

M .. Missing tissue

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BLANK .. Not examined microscopically

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1) Minimal 3) Moderate

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TDMS No. 96015 - 05

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/F 344

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
**WATER DISINFECTION BYPRODUCTS (DIBROMOACETONITRILE)**  
**CAS Number: 3252-43-5**  
**Pathologist: FARRELL, D. - HEATH, J. - JOKINEN, M.**

Date Report Reqsted: 06/09/2006

Time Report Reqsted: 12:50:37

First Dose M/F: 09/05/01 / 09/05/01

Lab: SRI

| DAY ON TEST                              | 6   | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 7   | 7 | 7 | 5 | 7 | 7 | 7 | 7 | 6 | 7 | 5   |   |
|--|-----|---|---|---|---|---|---|---|---|---|---|---|-----|---|---|---|---|---|---|---|---|---|-----|---|
|  | 6   | 1 | 0 | 3 | 3 | 3 | 3 | 3 | 2 | 0 | 7 | 3 | 3   | 3 | 3 | 3 | 9 | 1 | 3 | 3 | 3 | 5 | 0   | 9 |
|  | 4   | 2 | 7 | 5 | 5 | 4 | 4 | 5 | 1 | 2 | 5 | 5 | 5   | 5 | 4 | 4 | 6 | 4 | 6 | 6 | 2 | 6 | 4   |   |
| <b>FISCHER 344 RATS FEMALE</b>           | 0   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0   |   |
| ANIMAL ID                                | 0   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0   |   |
| <b>100 MG/L</b>                          | 3   | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3   | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3   |   |
|  | 2   | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3   | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5   |   |
|  | 6   | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8   | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8   |   |
|  |     |   |   |   |   |   |   |   |   |   |   |   |     |   |   |   |   |   |   |   |   |   |     |   |
| Hepatocyte, Cytologic Alterations, Focal |     |   |   |   |   |   |   |   | 4 | 3 | 4 |   |     |   |   |   |   |   |   |   |   |   |     |   |
| Hepatocyte, Eosinophilic Focus           |     |   |   |   |   |   |   |   |   | X |   |   |     |   |   |   |   |   |   |   |   |   |     |   |
| Hepatocyte, Mixed Cell Focus             |     |   |   |   |   |   |   |   |   |   | X |   |     |   |   |   |   |   |   |   |   |   |     |   |
| Hepatocyte, Necrosis                     |     |   |   |   |   |   |   |   |   |   |   | X |     |   |   |   |   |   |   |   |   |   |     |   |
| Hepatocyte, Vacuolization Cytoplasmic    |     |   |   |   |   |   |   |   |   |   |   |   | 1   |   |   |   |   |   |   |   |   |   |     |   |
|  | 4   |   |   |   |   |   |   |   |   |   |   |   | 3   |   |   |   |   |   |   |   |   |   |     |   |
|  | 3   |   |   |   |   |   |   |   |   |   |   |   | 2   |   |   |   |   |   |   |   |   |   |     |   |
|  | 1   |   |   |   |   |   |   |   |   |   |   |   | 1   |   |   |   |   |   |   |   |   |   |     |   |
|  | 2   |   |   |   |   |   |   |   |   |   |   |   | 1   |   |   |   |   |   |   |   |   |   |     |   |
|  | 2   |   |   |   |   |   |   |   |   |   |   |   | 1   |   |   |   |   |   |   |   |   |   |     |   |
|  | 3   |   |   |   |   |   |   |   |   |   |   |   | 2   |   |   |   |   |   |   |   |   |   |     |   |
|  | 1   |   |   |   |   |   |   |   |   |   |   |   | 1   |   |   |   |   |   |   |   |   |   |     |   |
|  | 2   |   |   |   |   |   |   |   |   |   |   |   | 1   |   |   |   |   |   |   |   |   |   |     |   |
|  | 2   |   |   |   |   |   |   |   |   |   |   |   | 2   |   |   |   |   |   |   |   |   |   |     |   |
|  | 4   |   |   |   |   |   |   |   |   |   |   |   | 1   |   |   |   |   |   |   |   |   |   |     |   |
|  | 29  |   |   |   |   |   |   |   |   |   |   |   | 4   |   |   |   |   |   |   |   |   |   |     |   |
|  | 2.0 |   |   |   |   |   |   |   |   |   |   |   | 2.0 |   |   |   |   |   |   |   |   |   |     |   |
| Mesentery                                | +   |   |   |   |   |   |   |   |   |   |   |   | +   |   |   |   |   |   |   |   |   |   |     |   |
| Fat, Necrosis, Focal                     |     |   |   |   |   |   |   |   |   |   |   |   | 2   |   |   |   |   |   |   |   |   |   |     |   |
|  |     |   |   |   |   |   |   |   |   |   |   |   | 3   |   |   |   |   |   |   |   |   |   |     |   |
|  |     |   |   |   |   |   |   |   |   |   |   |   | 3   |   |   |   |   |   |   |   |   |   |     |   |
|  |     |   |   |   |   |   |   |   |   |   |   |   | 3   |   |   |   |   |   |   |   |   |   |     |   |
|  |     |   |   |   |   |   |   |   |   |   |   |   | 1   |   |   |   |   |   |   |   |   |   |     |   |
|  |     |   |   |   |   |   |   |   |   |   |   |   | 2   |   |   |   |   |   |   |   |   |   |     |   |
|  |     |   |   |   |   |   |   |   |   |   |   |   | 4   |   |   |   |   |   |   |   |   |   |     |   |
|  |     |   |   |   |   |   |   |   |   |   |   |   | 29  |   |   |   |   |   |   |   |   |   |     |   |
|  |     |   |   |   |   |   |   |   |   |   |   |   | 2.0 |   |   |   |   |   |   |   |   |   |     |   |
| Oral Mucosa                              |     |   |   |   |   |   |   |   |   |   |   |   |     |   |   |   |   |   |   |   |   |   | 1   |   |
| Pancreas                                 | +   | + | + | + | + | + | + | + | + | + | + | + | +   | + | + | + | + | + | + | + | + | + | 50  |   |
| Acinus, Atrophy, Focal                   |     |   |   |   |   |   |   |   |   |   |   |   |     |   |   |   |   |   |   |   |   |   | 19  |   |
| Duct, Cyst                               |     |   |   |   |   |   |   |   |   |   |   |   |     |   |   |   |   |   |   |   |   |   | 7   |   |
| Salivary Glands                          | +   | + | + | + | + | + | + | + | + | + | + | + | +   | + | + | + | + | + | + | + | + | + | 50  |   |
| Stomach, Forestomach                     | +   | + | + | + | + | + | + | + | + | + | + | + | +   | + | + | + | + | + | + | + | + | + | 50  |   |
| Erosion                                  |     |   |   |   |   |   |   |   |   |   |   |   |     |   |   |   |   |   |   |   |   |   | 1   |   |
| Inflammation                             |     |   |   |   |   |   |   |   |   |   |   |   |     |   |   |   |   |   |   |   |   |   | 2.0 |   |
| Ulcer                                    |     |   |   |   |   |   |   |   |   |   |   |   |     |   |   |   |   |   |   |   |   |   | 3.0 |   |
| Epithelium, Hyperplasia                  |     |   |   |   |   |   |   |   |   |   |   |   |     |   |   |   |   |   |   |   |   |   | 3.0 |   |
|  | 1   | 2 |   |   |   |   |   |   |   |   |   |   |     |   |   |   |   |   |   |   |   |   | 8   |   |
|  |     |   |   |   |   |   |   |   |   |   |   |   |     |   |   |   |   |   |   |   |   |   | 1.9 |   |
| Stomach, Glandular                       | +   | + | + | + | + | + | + | + | + | + | + | + | +   | + | + | + | + | + | + | + | + | + | 50  |   |
| Erosion                                  |     |   |   |   |   |   |   |   |   |   |   |   |     |   |   |   |   |   |   |   |   |   | 4   |   |
| Ulcer                                    |     |   |   |   |   |   |   |   |   |   |   |   |     |   |   |   |   |   |   |   |   |   | 2.5 |   |
| Glands, Ectasia                          |     |   |   |   |   |   |   |   |   |   |   |   |     |   |   |   |   |   |   |   |   |   | 2.0 |   |
|  |     |   |   |   |   |   |   |   |   |   |   |   |     |   |   |   |   |   |   |   |   |   | 10  |   |
|  |     |   |   |   |   |   |   |   |   |   |   |   |     |   |   |   |   |   |   |   |   |   | 1.0 |   |
| Tongue                                   |     |   |   |   |   |   |   |   |   |   |   |   |     |   |   |   |   |   |   |   |   |   | 5   |   |

\* ... Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

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1-4 .. Lesion qualified as:

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TDMS No. 96015 - 05

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/F 344

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
**WATER DISINFECTION BYPRODUCTS (DIBROMOACETONITRILE)**  
**CAS Number: 3252-43-5**  
**Pathologist: FARRELL, D. - HEATH, J. - JOKINEN, M.**

Date Report Reqsted: 06/09/2006

Time Report Reqsted: 12:50:37

First Dose M/F: 09/05/01 / 09/05/01

Lab: SRI

| DAY ON TEST | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 5 | 7 | 7 | 7 | 7 | 6 | 7 | 5 |
|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
|             | 6 | 1 | 0 | 3 | 3 | 3 | 3 | 3 | 2 | 0 | 7 | 3 | 3 | 3 | 3 | 3 | 9 | 1 | 3 | 3 | 3 | 5 | 0 |
|             | 4 | 2 | 7 | 5 | 5 | 4 | 4 | 4 | 5 | 1 | 2 | 5 | 5 | 5 | 5 | 4 | 4 | 6 | 4 | 6 | 6 | 2 | 6 |

  

|                                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |          |
|--------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------|
| <b>FISCHER 344 RATS FEMALE</b> | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0        |
| ANIMAL ID                      | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0        |
| 100 MG/L                       | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3        |
|                                | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5        |
|                                | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8        |
|                                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | * TOTALS |

Epithelium, Hyperplasia

2 1.5

**CARDIOVASCULAR SYSTEM**

|                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |        |
|----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------|
| Heart          | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50     |
| Cardiomyopathy | 1 |   | 1 | 2 | 1 | 1 | 2 | 2 | 1 | 2 | 1 | 2 | 1 | 1 | 1 | 2 | 1 | 1 | 2 | 1 | 1 | 2 | 1      |
| Thrombosis     | 3 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 36 1.4 |

2 3.0

**ENDOCRINE SYSTEM**

|                                   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |        |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------|
| Adrenal Cortex                    | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50     |
| Accessory Adrenal Cortical Nodule |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1 2.0  |
| Angiectasis                       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 3 2.3  |
| Cytoplasmic Alteration, Focal     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 4 2.0  |
| Hyperplasia, Focal                | 2 | 2 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 10 1.9 |
| Infiltration Cellular, Mixed Cell |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1 1.0  |
| Vacuolization Cytoplasmic         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 9 1.8  |

|                                  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |       |
|----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------|
| Adrenal Medulla                  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50    |
| Angiectasis                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1 2.0 |
| Hyperplasia, Focal               |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1 2.0 |
| Vacuolization Cytoplasmic, Focal |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1 2.0 |

|                    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |       |
|--------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------|
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50    |
| Hyperplasia        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1 2.0 |

|                   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
|-------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Parathyroid Gland | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | M | + | + | + | + | + | + | 43 |
|-------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|

\* ... Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

TDMS No. 96015 - 05

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/F 344

## P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

WATER DISINFECTION BYPRODUCTS (DIBROMOACETONITRILE)

CAS Number: 3252-43-5

Pathologist: FARRELL, D. - HEATH, J. - JOKINEN, M.

Date Report Reqsted: 06/09/2006

Time Report Reqsted: 12:50:37

First Dose M/F: 09/05/01 / 09/05/01

Lab: SRI

| DAY ON TEST                       | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 5 | 7 | 7 | 7 | 7 | 6 | 7         | 5               |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|-----------------|
|                                   | 6 | 1 | 0 | 3 | 3 | 3 | 3 | 3 | 2 | 0 | 7 | 3 | 3 | 3 | 3 | 3 | 9 | 1 | 3 | 3 | 3 | 5 | 0         | 9               |
|                                   | 4 | 2 | 7 | 5 | 5 | 4 | 4 | 4 | 5 | 1 | 2 | 5 | 5 | 5 | 5 | 4 | 4 | 6 | 4 | 6 | 6 | 2 | 6         | 4               |
| <b>FISCHER 344 RATS FEMALE</b>    | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0         | 0               |
| ANIMAL ID                         | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0         | 0               |
| <b>100 MG/L</b>                   | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3         | 3               |
|                                   | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4         | 5               |
|                                   | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8         | 9               |
|                                   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |           | <b>* TOTALS</b> |
| Pituitary Gland                   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +         | <b>50</b>       |
| Angiectasis                       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |           | <b>5 3.0</b>    |
| Cyst                              |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |           | <b>2</b>        |
| Pars Distalis, Cyst               |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |           | <b>5</b>        |
| Pars Distalis, Hyperplasia, Focal |   | 2 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |           | <b>9 2.4</b>    |
| Pars Intermedia, Vacuolization    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |           | <b>1 2.0</b>    |
| Cytoplasmic, Focal                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |           | <b>1</b>        |
| Rathke's Cleft, Cyst              |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |           |                 |
| Thyroid Gland                     | + | + | + | + | + | + | + | + | A | A | + | + | + | + | + | + | + | + | + | + | + | + | <b>48</b> |                 |
| C-cell, Hyperplasia               | 2 | 1 | 1 | 3 | 2 | 2 | 1 | 1 |   |   | 2 | 2 | 2 | 2 | 2 | 1 | 3 | 1 | 2 | 2 | 2 | 2 | 3         | <b>45 1.8</b>   |

**GENERAL BODY SYSTEM**

NONE

**GENITAL SYSTEM**

|                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |           |              |
|----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|--------------|
| Clitoral Gland       | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>47</b> |              |
| Degeneration, Cystic |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |           | <b>4 2.5</b> |
| Hyperplasia, Cystic  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |           | <b>8 2.0</b> |
| Inflammation         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |           | <b>1 3.0</b> |
| Metaplasia, Squamous |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |           | <b>1 3.0</b> |
| Ovary                | + | + | + | + | + | + | + | X | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>50</b> |              |
| Cyst                 |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |           | <b>3</b>     |
| Oviduct              |   |   |   |   |   |   |   |   | + |   |   |   |   |   |   |   |   |   |   |   |   |   |           | <b>1</b>     |

\* ... Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

TDMS No. 96015 - 05

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/F 344

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
**WATER DISINFECTION BYPRODUCTS (DIBROMOACETONITRILE)**  
**CAS Number: 3252-43-5**  
**Pathologist: FARRELL, D. - HEATH, J. - JOKINEN, M.**

Date Report Reqsted: 06/09/2006

Time Report Reqsted: 12:50:37

First Dose M/F: 09/05/01 / 09/05/01

Lab: SRI

| DAY ON TEST   | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 5 | 7 | 7 | 7 | 7 | 6 | 7 | 5               |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------------|
|   | 6 | 1 | 0 | 3 | 3 | 3 | 3 | 3 | 2 | 0 | 7 | 3 | 3 | 3 | 3 | 3 | 9 | 1 | 3 | 3 | 3 | 5 | 0 | 9               |
|   | 4 | 2 | 7 | 5 | 5 | 4 | 4 | 5 | 1 | 2 | 5 | 5 | 5 | 5 | 4 | 4 | 6 | 4 | 6 | 6 | 6 | 2 | 6 | 4               |
| <b>FISCHER 344 RATS FEMALE</b><br><b>ANIMAL ID</b><br><b>100 MG/L</b> | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0               |
|   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0               |
|   | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3               |
|   | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5               |
|   | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9               |
|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>* TOTALS</b> |
| Uterus<br>Endometrium, Hyperplasia, Cystic                            | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>50</b>       |
|   | 2 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 3 | 2 | 2 | 1 | 2 | 2 | 1 | 1 | 3 | 1 | 2 | 2 | 1 | 2 | 1 | <b>39 1.7</b>   |
| Vagina<br>Inflammation<br>Epithelium, Cyst                            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>7</b>        |
|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>2</b>        |
|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1</b>        |
|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1</b>        |
|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>2.0</b>      |
|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1</b>        |

**HEMATOPOIETIC SYSTEM**

|                                       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |          |              |
|---------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------|--------------|
| Bone Marrow<br>Hyperplasia            | + | + | + | + | + | + | + | + | + | 3 | + | + | + | + | + | + | + | 3 | 3 | + | + | + | +        | <b>50</b>    |
|                                       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |          | <b>5 3.0</b> |
| Lymph Node<br>Congestion              |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |          | <b>1 3.0</b> |
| Deep Cervical, Hemorrhage             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |          | <b>1 3.0</b> |
| Mediastinal, Ectasia                  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |          | <b>4 3.0</b> |
| Mediastinal, Hemorrhage               |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |          | <b>6 3.0</b> |
| Mediastinal, Hyperplasia, Histiocytic |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |          | <b>1 3.0</b> |
| Mediastinal, Hyperplasia, Lymphoid    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |          | <b>4 2.8</b> |
| Pancreatic, Amyloid Deposition        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |          | <b>1 3.0</b> |
| Pancreatic, Hemorrhage                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |          | <b>2 3.0</b> |
| Lymph Node, Mandibular                | + | M | M | M | M | M | M | M | M | + | M | M | M | M | M | M | M | M | M | M | M | M | <b>2</b> |              |
| Lymph Node, Mesenteric<br>Ectasia     | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +        | <b>50</b>    |
| Hemorrhage                            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |          | <b>2 3.0</b> |
|                                       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |          | <b>1 2.0</b> |
| Spleen                                | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +        | <b>50</b>    |

\* ... Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x .. Lesion present

l .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

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1) Minimal 3) Moderate

2) Mild 4) Marked



TDMS No. 96015 - 05

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/F 344

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
**WATER DISINFECTION BYPRODUCTS (DIBROMOACETONITRILE)**  
**CAS Number: 3252-43-5**  
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Date Report Reqsted: 06/09/2006

Time Report Reqsted: 12:50:37

First Dose M/F: 09/05/01 / 09/05/01

Lab: SRI

| DAY ON TEST | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 5 | 7 | 7 | 7 | 7 | 6 | 7 | 5 |
|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
|             | 6 | 1 | 0 | 3 | 3 | 3 | 3 | 3 | 2 | 0 | 7 | 3 | 3 | 3 | 3 | 3 | 9 | 1 | 3 | 3 | 3 | 5 | 0 | 9 |
|             | 4 | 2 | 7 | 5 | 5 | 4 | 4 | 5 | 1 | 2 | 5 | 5 | 5 | 5 | 4 | 4 | 6 | 4 | 4 | 6 | 6 | 2 | 6 | 4 |

  

|                                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| <b>FISCHER 344 RATS FEMALE</b> | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ANIMAL ID                      | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 100 MG/L                       | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
|                                | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 |
|                                | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |

\* TOTALS

Spinal Cord

+

2

**RESPIRATORY SYSTEM**

|                                  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |     |
|----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-----|
| Lung                             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |     |
| Congestion                       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  | 2.0 |
| Hemorrhage                       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  | 2.0 |
| Inflammation                     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 3  | 1.3 |
| Alveolar Epithelium, Hyperplasia |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2  | 2.0 |
| Nose                             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |     |
| Trachea                          | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |     |

**SPECIAL SENSES SYSTEM**

|                                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |     |
|--------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-----|
| Eye                            | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |     |
| Atrophy                        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  | 3.0 |
| Harderian Gland                | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |     |
| Inflammation                   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  | 1.0 |
| Epithelium, Hyperplasia, Focal |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  | 1.0 |
| Zymbal's Gland                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |     |

**URINARY SYSTEM**

|  |                                       |                             |
|--|---------------------------------------|-----------------------------|
| * .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade | M .. Missing tissue                   | 1-4 .. Lesion qualified as: |
| + .. Tissue examined microscopically   | A .. Autolysis precludes evaluation   | 1) Minimal    3) Moderate   |
| x .. Lesion present  | BLANK .. Not examined microscopically | 2) Mild    4) Marked        |
| I .. Insufficient tissue   | Page 116                              |                             |

TDMS No. 96015 - 05

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/F 344

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
**WATER DISINFECTION BYPRODUCTS (DIBROMOACETONITRILE)**  
**CAS Number: 3252-43-5**  
**Pathologist: FARRELL, D. - HEATH, J. - JOKINEN, M.**

Date Report Reqsted: 06/09/2006

Time Report Reqsted: 12:50:37

First Dose M/F: 09/05/01 / 09/05/01

Lab: SRI

| DAY ON TEST                         | 6               | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 5 | 7 | 7 | 7 | 7 | 6 | 7 | 5  |        |
|-------------------------------------|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|--------|
|                                     | 6               | 1 | 0 | 3 | 3 | 3 | 3 | 3 | 2 | 0 | 7 | 3 | 3 | 3 | 3 | 3 | 9 | 1 | 3 | 3 | 3 | 5 | 0 | 9  |        |
|                                     | 4               | 2 | 7 | 5 | 5 | 4 | 4 | 5 | 1 | 2 | 5 | 5 | 5 | 5 | 4 | 4 | 6 | 4 | 4 | 6 | 6 | 2 | 6 | 4  |        |
| <b>FISCHER 344 RATS FEMALE</b>      | 0               | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0  |        |
| ANIMAL ID                           | 0               | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0  |        |
| <b>100 MG/L</b>                     | 3               | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3  |        |
|                                     | 2               | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5  |        |
|                                     | 6               | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9  |        |
|                                     | <b>* TOTALS</b> |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |        |
| Kidney                              | +               | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |        |
| Infiltration Cellular, Lymphocyte   |                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 1 2.0  |
| Nephropathy                         | 1               | 1 | 1 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 2 | 1 | 1 | 2 | 1  | 44 1.3 |
| Renal Tubule, Accumulation, Hyaline |                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 17 2.2 |
| Droplet                             |                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 2      |
| Renal Tubule, Hyperplasia, Focal    |                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 1 1.0  |
| Urinary Bladder                     | +               | I | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |        |

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

TDMS No. 96015 - 05

**Test Type:** CHRONIC

**Route:** DOSED WATER

**Species/Strain:** RATS/F 344

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
WATER DISINFECTION BYPRODUCTS (DIBROMOACETONITRILE)  
**CAS Number:** 3252-43-5  
**Pathologist:** FARRELL, D. - HEATH, J. - JOKINEN, M.

Date Report Registered: 06/09/2006

Time Report Requested: 12:50:37

**First Dose M/F:** 09/05/01 / 09/05/01

Lab: SRI

## ALIMENTARY SYSTEM

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x .. Lesion present

#### I .. Insufficient tissue

M .. Missing tissue  
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1-4 .. Lesion qualified as:  
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TDMS No. 96015 - 05

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/F 344

## P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

WATER DISINFECTION BYPRODUCTS (DIBROMOACETONITRILE)

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Pathologist: FARRELL, D. - HEATH, J. - JOKINEN, M.

Date Report Reqsted: 06/09/2006

Time Report Reqsted: 12:50:37

First Dose M/F: 09/05/01 / 09/05/01

Lab: SRI

| DAY ON TEST                           | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 5 | 3 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 6 | 7 | 7 |   |
|---------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
|                                       | 2 | 7 | 2 | 2 | 2 | 3 | 1 | 1 | 9 | 8 | 3 | 5 | 3 | 3 | 3 | 2 | 2 | 7 | 7 | 2 | 1 | 3 | 3 | 3 |
|                                       | 9 | 1 | 9 | 9 | 9 | 5 | 4 | 4 | 6 | 0 | 5 | 7 | 5 | 5 | 5 | 9 | 9 | 1 | 9 | 4 | 5 | 5 | 2 | 5 |
| <b>FISCHER 344 RATS FEMALE</b>        | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |   |
| ANIMAL ID                             | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |   |
| <b>200 MG/L</b>                       | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |   |
|                                       | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 |   |
|                                       | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 |   |
|                                       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Hepatocyte, Eosinophilic Focus        | X | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Hepatocyte, Mixed Cell Focus          |   |   | X |   | X | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Hepatocyte, Necrosis                  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Hepatocyte, Vacuolization Cytoplasmic | 1 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Mesentery                             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Accessory Spleen                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Fat, Necrosis, Focal                  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Oral Mucosa                           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Hyperplasia                           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Pancreas                              | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |
| Acinus, Atrophy, Focal                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Acinus, Cytoplasmic Alteration        | 1 | 2 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Duct, Cyst                            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Salivary Glands                       | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |
| Stomach, Forestomach                  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |
| Erosion                               |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Ulcer                                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Epithelium, Hyperplasia               |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Stomach, Glandular                    | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |
| Erosion                               |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Inflammation, Focal                   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Ulcer                                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Glands, Ectasia                       | 1 | 1 | 1 | 1 | 2 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Glands, Hyperplasia                   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

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TDMS No. 96015 - 05

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/F 344

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WATER DISINFECTION BYPRODUCTS (DIBROMOACETONITRILE)

CAS Number: 3252-43-5

Pathologist: FARRELL, D. - HEATH, J. - JOKINEN, M.

Date Report Reqsted: 06/09/2006

Time Report Reqsted: 12:50:37

First Dose M/F: 09/05/01 / 09/05/01

Lab: SRI

|                                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
|                                | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 5 | 3 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 6 | 7 |   |
|                                | 2 | 7 | 2 | 2 | 2 | 3 | 1 | 1 | 9 | 8 | 3 | 5 | 3 | 3 | 3 | 2 | 2 | 7 | 2 | 1 | 3 | 3 | 7 | 3 |
|                                | 9 | 1 | 9 | 9 | 9 | 5 | 4 | 4 | 6 | 0 | 5 | 7 | 5 | 5 | 5 | 9 | 9 | 1 | 9 | 4 | 5 | 5 | 2 | 5 |
| <b>FISCHER 344 RATS FEMALE</b> |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| ANIMAL ID                      | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|                                | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|                                | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
|                                | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 |
|                                | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 |

females  
(cont...)

Neuroendocrine Cell, Hyperplasia

Tongue  
Epithelium, Hyperplasia+ + +  
1 1 1**CARDIOVASCULAR SYSTEM**

|                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Heart          | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Cardiomyopathy | 1 |   | 1 | 2 | 1 | 2 | 2 |   | 2 | 2 | 2 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 1 | 1 | 2 | 1 |
| Thrombosis     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

**ENDOCRINE SYSTEM**

|                                   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Adrenal Cortex                    | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Accessory Adrenal Cortical Nodule |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Angiectasis                       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Cytoplasmic Alteration, Focal     | 2 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Hyperplasia, Focal                | 2 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Infiltration Cellular, Mixed Cell | 1 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Necrosis                          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Vacuolization Cytoplasmic         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

|                                   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Adrenal Medulla                   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hyperplasia, Focal                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Infiltration Cellular, Mixed Cell | 2 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|                                   | 2 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

|                    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
|                    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

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TDMS No. 96015 - 05

Test Type: CHRONIC

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Species/Strain: RATS/F 344

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Lab: SRI

| DAY ON TEST                                  | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 5 | 3 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 6 | 7 | 7 |   |   |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
|  | 2 | 7 | 2 | 2 | 2 | 3 | 1 | 1 | 9 | 8 | 3 | 5 | 3 | 3 | 3 | 2 | 2 | 7 | 7 | 2 | 1 | 3 | 3 | 3 |   |
|  | 9 | 1 | 9 | 9 | 9 | 5 | 4 | 4 | 6 | 0 | 5 | 7 | 5 | 5 | 5 | 9 | 9 | 1 | 9 | 4 | 5 | 5 | 2 | 5 |   |
| <b>FISCHER 344 RATS FEMALE</b>               | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |   |
| ANIMAL ID                                    | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |   |
| <b>200 MG/L</b>                              | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |   |
|  | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 |   |
|  | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 |   |
|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Parathyroid Gland                            | + | + | + | I | + | + | + | + | + | + | + | + | + | + | + | M | + | M | + | + | + | + | + | M |   |
| Pituitary Gland                              | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |
| Angiectasis                                  | 3 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 3 |   | 3 |   | 3 |   |   |   | 3 |
| Cyst   |   | X | X |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |
| Fibrosis, Focal                              |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Hemorrhage                                   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Pars Distalis, Cyst                          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Pars Distalis, Cytoplasmic Alteration, Focal |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Pars Distalis, Hyperplasia                   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Pars Distalis, Hyperplasia, Focal            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Rathke's Cleft, Cyst                         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Thyroid Gland                                | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |
| C-cell, Hyperplasia                          | 2 | 2 | 2 | 2 | 1 | 2 | 2 | 3 | 2 | 2 | 1 | 2 | 2 | 2 | 2 | 3 | 3 | 2 | 2 | 2 | 2 | 2 | 1 | 2 |   |

**GENERAL BODY SYSTEM**

Peritoneum

**GENITAL SYSTEM**

Clitoral Gland  
Cyst  
Degeneration, Cystic  
Hyperplasia, Cystic  
Inflammation

+

+

+

+

+

+

+

+

+

+

+

+

+

+

+

+

+

+

+

+

+

+

+

+

\* ... Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

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Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/F 344

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
**WATER DISINFECTION BYPRODUCTS (DIBROMOACETONITRILE)**  
**CAS Number: 3252-43-5**  
**Pathologist: FARRELL, D. - HEATH, J. - JOKINEN, M.**

Date Report Reqsted: 06/09/2006

Time Report Reqsted: 12:50:37

First Dose M/F: 09/05/01 / 09/05/01

Lab: SRI

| DAY ON TEST                      | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 5 | 3 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 6 | 7 | 7 |   |  |
|----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
|                                  | 2 | 7 | 2 | 2 | 2 | 3 | 1 | 1 | 9 | 8 | 3 | 5 | 3 | 3 | 3 | 2 | 2 | 7 | 7 | 2 | 1 | 3 | 3 | 3 |  |
|                                  | 9 | 1 | 9 | 9 | 9 | 5 | 4 | 4 | 6 | 0 | 5 | 7 | 5 | 5 | 5 | 9 | 9 | 1 | 9 | 4 | 5 | 5 | 2 | 5 |  |
| <b>FISCHER 344 RATS FEMALE</b>   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |  |
| ANIMAL ID                        | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |  |
| <b>200 MG/L</b>                  | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |  |
|                                  | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 |  |
|                                  | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 |  |
|                                  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Ovary Cyst                       | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  |
|                                  |   |   |   |   |   |   | X |   | X |   |   |   |   |   |   |   |   | X |   | X |   |   |   |   |  |
| Uterus Hemorrhage                | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  |
| Endometrium, Hyperplasia, Cystic | 2 | 1 | 2 | 2 |   |   |   |   |   | 2 | 1 | 1 |   |   |   |   | 1 | 2 | 2 | 2 | 2 |   | 1 | 1 |  |
| Vagina Inflammation              |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | + | + | + |   |   |   |   |  |
| Epithelium, Cyst                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |  |

**HEMATOPOIETIC SYSTEM**

|                                    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone Marrow                        | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hyperplasia                        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Hyperplasia, Histiocytic, Focal    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Lymph Node                         | + |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Mediastinal, Hemorrhage            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Mediastinal, Hyperplasia, Lymphoid |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Mediastinal, Pigmentation          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Pancreatic, Hemorrhage             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Lymph Node, Mandibular             | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M |
| Lymph Node, Mesenteric             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Ectasia                            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Hyperplasia, Lymphoid              |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x .. Lesion present

l .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

TDMS No. 96015 - 05

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Lab: SRI

| DAY ON TEST                    | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 5 | 3 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 6 | 7 | 7 |   |
|--------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
|                                | 2 | 7 | 2 | 2 | 2 | 3 | 1 | 1 | 9 | 8 | 3 | 5 | 3 | 3 | 3 | 2 | 2 | 7 | 7 | 1 | 3 | 3 | 7 | 3 |
|                                | 9 | 1 | 9 | 9 | 9 | 5 | 4 | 4 | 6 | 0 | 5 | 7 | 5 | 5 | 5 | 9 | 9 | 1 | 9 | 4 | 5 | 5 | 2 | 5 |
| <b>FISCHER 344 RATS FEMALE</b> | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| <b>ANIMAL ID</b>               | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| <b>200 MG/L</b>                | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
|                                | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 |
|                                | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 |

females  
(cont...)

|                                  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
|----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Spleen                           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  |
| Hematopoietic Cell Proliferation |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Pigmentation                     | 3 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Lymphoid Follicle, Atrophy       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |

|            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
|------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Thymus     | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  |
| Hemorrhage |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |

**INTEGUMENTARY SYSTEM**

|               |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
|---------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  |
| Dilatation    | 3 |   | 3 | 3 | 2 |   |   |   |   | 2 |   | 2 |   |   |   |   |   |   |   |   |   |   |   |  |
| Fibrosis      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Galactocele   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
|               |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Skin          | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  |
| Ulcer         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |

**MUSCULOSKELETAL SYSTEM**

|              |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
|--------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Bone         | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  |
| Hyperostosis |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |

**NERVOUS SYSTEM**

|                    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
|--------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Brain              | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  |
| Compression, Focal |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

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l .. Insufficient tissue

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TDMS No. 96015 - 05

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Lab: SRI

| DAY ON TEST                    | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 5 | 3 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 6 | 7 | 7 |   |
|--------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
|                                | 2 | 7 | 2 | 2 | 2 | 3 | 1 | 1 | 9 | 8 | 3 | 5 | 3 | 3 | 3 | 2 | 2 | 7 | 2 | 1 | 3 | 3 | 7 | 3 | 3 |
|                                | 9 | 1 | 9 | 9 | 9 | 5 | 4 | 4 | 6 | 0 | 5 | 7 | 5 | 5 | 5 | 9 | 9 | 1 | 9 | 4 | 5 | 5 | 2 | 5 | 5 |
| <b>FISCHER 344 RATS FEMALE</b> | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| <b>ANIMAL ID</b>               | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| <b>200 MG/L</b>                | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
|                                | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
|                                | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 |

females  
(cont...)

Hemorrhage, Focal

3

Peripheral Nerve

+

Spinal Cord  
Hemorrhage, Focal+  
3

+

**RESPIRATORY SYSTEM**

|                                  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lung                             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Congestion                       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Hemorrhage                       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Inflammation                     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Alveolar Epithelium, Hyperplasia | 1 |   | 1 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|                                  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Nose                             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Nasolacrimal Duct, Inflammation  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Trachea                          | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

**SPECIAL SENSES SYSTEM**

|                             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|-----------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Eye                         | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Atrophy                     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|                             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Harderian Gland             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Degeneration, Cystic, Focal |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|                             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

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| DAY ON TEST                    | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 5 | 3 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 6 | 7 | 7 |   |
|--------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
|                                | 2 | 7 | 2 | 2 | 2 | 3 | 1 | 1 | 9 | 8 | 3 | 5 | 3 | 3 | 3 | 2 | 2 | 7 | 7 | 2 | 1 | 3 | 3 | 3 |
|                                | 9 | 1 | 9 | 9 | 9 | 5 | 4 | 4 | 6 | 0 | 5 | 7 | 5 | 5 | 5 | 9 | 9 | 1 | 9 | 4 | 5 | 5 | 2 | 5 |
| <b>FISCHER 344 RATS FEMALE</b> | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ANIMAL ID                      | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| <b>200 MG/L</b>                | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
|                                | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 |
|                                | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 |

Epithelium, Hyperplasia, Focal

2

**URINARY SYSTEM**

|                                     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|-------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Kidney                              | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |
| Congestion                          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 3 |
| Infarct                             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 3 |
| Nephropathy                         | 2 | 1 | 2 | 1 | 1 | 2 | 3 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 3 | 1 | 1 | 1 | 1 |
| Pelvis, Inflammation, Chronic       |   |   |   |   |   |   | 2 | 2 |   |   |   |   |   |   |   |   |   |   | 2 | 2 |   |   |   |   |
| Renal Tubule, Accumulation, Hyaline |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Droplet                             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Renal Tubule, Cyst                  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |
| Urinary Bladder                     | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

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x .. Lesion present

l .. Insufficient tissue

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TDMS No. 96015 - 05

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|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| <b>FISCHER 344 RATS FEMALE</b><br><b>ANIMAL ID</b><br><b>200 MG/L</b> | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 4 | 7 | 6 | 7 | 7 | 5 | 7 | 7 | 7 | 6 | 7 | 5 | 6 | 7 | 7 |
|   | 3 | 0 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 7 | 3 | 7 | 3 | 3 | 9 | 1 | 3 | 3 | 2 | 1 | 5 | 4 | 3 | 0 |
|   | 4 | 2 | 4 | 4 | 4 | 6 | 6 | 6 | 6 | 7 | 6 | 1 | 6 | 6 | 0 | 0 | 5 | 5 | 9 | 4 | 1 | 8 | 6 | 1 |
| <b>*</b> <b>TOTALS</b>  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

**ALIMENTARY SYSTEM**

|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |     |     |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-----|-----|
| Esophagus                                | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |     |     |
| Ulcer                                    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  | 1.0 |     |
| Epithelium, Hyperkeratosis               | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 2 | 3 | 2 | 3 | 2 | 3  | 48  | 2.0 |
| Intestine Large, Cecum                   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |     |     |
| Intestine Large, Colon                   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |     |     |
| Intestine Large, Rectum                  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |     |     |
| Intestine Small, Duodenum                | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | +  | 49  |     |
| Intestine Small, Ileum                   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |     |     |
| Intestine Small, Jejunum                 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | A | + | A | A | 46 |     |     |
| Liver                                    | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |     |     |
| Angiectasis, Focal                       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2  | 3   | 2.0 |
| Congestion                               | 3 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2  | 6   | 2.3 |
| Hematopoietic Cell Proliferation         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 1   | 1.0 |
| Hepatodiaphragmatic Nodule               |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |     | 3   |
| Inflammation, Chronic                    | 2 | 1 | 1 | 1 | 2 | 2 | 1 | 2 | 2 | 1 | 2 | 2 | 1 | 2 | 2 | 1 | 2 | 2 | 2 | 1 | 2 | 2 | 2 | 1  | 34  | 1.4 |
| Bile Duct, Hyperplasia                   | 1 | 2 | 2 | 1 | 1 |   |   |   |   | 1 |   |   | 1 | 2 |   | 3 | 2 | 2 | 2 | 2 | 1 | 1 |   |    | 29  | 1.6 |
| Hepatocyte, Basophilic Focus             | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | 41 |     |     |
| Hepatocyte, Clear Cell Focus             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    | X   | 14  |
| Hepatocyte, Cytologic Alterations, Focal | 4 | 3 |   |   |   |   |   |   |   | 2 | 4 |   |   |   | 3 | 1 | 2 | 2 | 2 | 3 |   |   |   |    | 16  | 2.4 |

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

TDMS No. 96015 - 05

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/F 344

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
**WATER DISINFECTION BYPRODUCTS (DIBROMOACETONITRILE)**  
**CAS Number: 3252-43-5**  
**Pathologist: FARRELL, D. - HEATH, J. - JOKINEN, M.**

Date Report Reqsted: 06/09/2006

Time Report Reqsted: 12:50:37

First Dose M/F: 09/05/01 / 09/05/01

Lab: SRI

| DAY ON TEST                           | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 4 | 7 | 6 | 7 | 7 | 5 | 7 | 7 | 7 | 6 | 7 | 5 | 6 | 7 | 7 | 7  |          |
|---------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|----------|
|                                       | 3 | 0 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 7 | 3 | 7 | 3 | 3 | 9 | 1 | 3 | 3 | 2 | 1 | 5 | 4 | 3 | 0 |    |          |
|                                       | 4 | 2 | 4 | 4 | 4 | 6 | 6 | 6 | 6 | 7 | 6 | 1 | 6 | 6 | 0 | 0 | 5 | 5 | 9 | 4 | 1 | 8 | 6 | 1 |    |          |
| <b>FISCHER 344 RATS FEMALE</b>        | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0  | 0        |
| ANIMAL ID                             | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0  | 0        |
| <b>200 MG/L</b>                       | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3  | 4        |
|                                       | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9  | 0        |
|                                       | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0  | * TOTALS |
| Hepatocyte, Eosinophilic Focus        | X | X | X | X |   | X | X | X | X |   | X | X | X | X | X | X | X | X | X |   |   |   |   |   | 1  |          |
| Hepatocyte, Mixed Cell Focus          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 25 |          |
| Hepatocyte, Necrosis                  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 3  | 1.0      |
| Hepatocyte, Vacuolization Cytoplasmic |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 23 | 1.7      |
| Mesentery                             | + | + |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | +  | 15       |
| Accessory Spleen                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X  | 1        |
| Fat, Necrosis, Focal                  | 3 | 2 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 3  | 11 2.7   |
| Oral Mucosa                           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |          |
| Hyperplasia                           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  | 3.0      |
| Pancreas                              | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |          |
| Acinus, Atrophy, Focal                | 2 | 3 | 1 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 17 | 1.9      |
| Acinus, Cytoplasmic Alteration        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  | 2.0      |
| Duct, Cyst                            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 4  |          |
| Salivary Glands                       | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |          |
| Stomach, Forestomach                  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |          |
| Erosion                               |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  | 1.0      |
| Ulcer                                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2  | 2.0      |
| Epithelium, Hyperplasia               |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2  | 3 4 2.5  |
| Stomach, Glandular                    | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |          |
| Erosion                               |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  | 2.0      |
| Inflammation, Focal                   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  | 2.0      |
| Ulcer                                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  | 2.0      |
| Glands, Ectasia                       | 1 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  | 1.1      |
| Glands, Hyperplasia                   |   | 2 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 26 | 1.1      |
|                                       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2  | 1.5      |

\* ... Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x .. Lesion present

l .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

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2) Mild 4) Marked

TDMS No. 96015 - 05

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/F 344

## P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

WATER DISINFECTION BYPRODUCTS (DIBROMOACETONITRILE)

CAS Number: 3252-43-5

Pathologist: FARRELL, D. - HEATH, J. - JOKINEN, M.

Date Report Reqsted: 06/09/2006

Time Report Reqsted: 12:50:37

First Dose M/F: 09/05/01 / 09/05/01

Lab: SRI

|                                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                 |
|--------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------------|
|                                | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 4 | 7 | 6 | 7 | 7 | 5 | 7 | 7 | 7 | 6 | 7 | 5 | 6 | 7 | 7               |
|                                | 3 | 0 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 7 | 3 | 7 | 3 | 3 | 9 | 1 | 3 | 3 | 2 | 1 | 5 | 4 | 3 | 0               |
|                                | 4 | 2 | 4 | 4 | 4 | 6 | 6 | 6 | 6 | 7 | 6 | 1 | 6 | 6 | 0 | 0 | 5 | 5 | 9 | 4 | 1 | 8 | 6 | 1               |
|                                | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0               |
|                                | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0               |
| <b>FISCHER 344 RATS FEMALE</b> | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3               |
| <b>ANIMAL ID</b>               | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 0               |
| <b>200 MG/L</b>                | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9               |
|                                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>* TOTALS</b> |

Neuroendocrine Cell, Hyperplasia ..... 1 ..... 1 1.0

Tongue ..... + ..... + ..... + ..... + ..... 7 ..... 6 1.2  
Epithelium, Hyperplasia ..... 1 ..... 2 ..... 1 ..... 1**CARDIOVASCULAR SYSTEM**

|                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |     |
|----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-----|
| Heart          | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |     |
| Cardiomyopathy | 2 | 1 | 2 | 2 | 2 | 1 | 2 | 1 | 2 | 2 | 2 | 1 | 1 | 2 | 2 | 1 | 1 | 2 | 1 | 2 | 1 | 2 | 35 | 1.6 |
| Thrombosis     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  | 2.0 |

**ENDOCRINE SYSTEM**

|                                   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |       |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-------|
| Adrenal Cortex                    | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |       |
| Accessory Adrenal Cortical Nodule |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  | 2 1.0 |
| Angiectasis                       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  | 3.0   |
| Cytoplasmic Alteration, Focal     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  | 2.0   |
| Hyperplasia, Focal                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 8  | 2.0   |
| Infiltration Cellular, Mixed Cell |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2  | 1.5   |
| Necrosis                          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  | 3.0   |
| Vacuolization Cytoplasmic         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 6  | 1.5   |

|                                   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |     |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-----|
| Adrenal Medulla                   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |     |
| Hyperplasia, Focal                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 5  | 1.2 |
| Infiltration Cellular, Mixed Cell |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  | 2.0 |

|                    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
|--------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
|--------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

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TDMS No. 96015 - 05

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/F 344

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
**WATER DISINFECTION BYPRODUCTS (DIBROMOACETONITRILE)**  
**CAS Number: 3252-43-5**  
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Date Report Reqsted: 06/09/2006

Time Report Reqsted: 12:50:37

First Dose M/F: 09/05/01 / 09/05/01

Lab: SRI

| DAY ON TEST   | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 4 | 7 | 6 | 7 | 7 | 5 | 7 | 7 | 7 | 6 | 7 | 5 | 6 | 7 | 7 | 7               |       |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------------|-------|
|   | 3 | 0 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 7 | 3 | 7 | 3 | 3 | 9 | 1 | 3 | 3 | 2 | 1 | 5 | 4 | 3 | 0 |                 |       |
|   | 4 | 2 | 4 | 4 | 4 | 6 | 6 | 6 | 6 | 7 | 6 | 1 | 6 | 6 | 0 | 0 | 5 | 5 | 9 | 4 | 1 | 8 | 6 | 1 |                 |       |
| <b>FISCHER 344 RATS FEMALE</b><br><b>ANIMAL ID</b><br><b>200 MG/L</b> | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | * <b>TOTALS</b> |       |
| Parathyroid Gland   | M | + | + | + | + | + | + | I | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | 43              |       |
| Pituitary Gland   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50              |       |
| Angiectasis   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 7 3.0           |       |
| Cyst  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 4               |       |
| Fibrosis, Focal   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 3 1.3.0         |       |
| Hemorrhage  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2 2.0           |       |
| Pars Distalis, Cyst   | X | X | X |   | X |   | X |   | X |   | X |   | X |   | X |   | X |   | X |   |   |   |   |   | 12              |       |
| Pars Distalis, Cytoplasmic Alteration, Focal                          |   |   |   |   |   | 2 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                 | 2 1.5 |
| Pars Distalis, Hyperplasia  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                 | 2 3.0 |
| Pars Distalis, Hyperplasia, Focal                                     | 2 |   |   | 4 | 2 |   |   | 2 |   |   |   |   |   |   |   |   |   |   | 2 | 3 |   |   |   |   | 10 2.2          |       |
| Rathke's Cleft, Cyst  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                 | 1     |
| Thyroid Gland   | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | A | + | + | 46              |       |
| C-cell, Hyperplasia   | 3 | 2 | 1 | 3 | 1 | 2 | 2 | 2 | 2 | 2 | 3 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 42 2.0          |       |

**GENERAL BODY SYSTEM**

|            |   |   |
|------------|---|---|
| Peritoneum | + | 1 |
|------------|---|---|

**GENITAL SYSTEM**

|                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |       |
|----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------|
| Clitoral Gland       | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50    |
| Cyst                 |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1     |
| Degeneration, Cystic |   |   |   |   |   |   | 3 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 6 3.2 |
| Hyperplasia, Cystic  |   |   |   |   |   |   |   | 2 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 4 2.3 |
| Inflammation         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2 |   |   |   |   |   |   | 3 2.7 |

\* ... Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

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Lab: SRI

| DAY ON TEST   | 7               | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 4 | 7 | 6 | 7 | 7 | 5 | 7 | 7 | 7 | 6 | 7 | 5 | 6 | 7 | 7  |     |
|---|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-----|
|   | 3               | 0 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 7 | 3 | 7 | 3 | 3 | 9 | 1 | 3 | 3 | 2 | 1 | 5 | 4 | 3 | 0  |     |
|   | 4               | 2 | 4 | 4 | 4 | 6 | 6 | 6 | 6 | 7 | 6 | 1 | 6 | 6 | 0 | 0 | 5 | 5 | 9 | 4 | 1 | 8 | 6 | 1  |     |
| <b>FISCHER 344 RATS FEMALE</b><br><b>ANIMAL ID</b><br><b>200 MG/L</b> | 0               | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0  |     |
|   | 0               | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0  |     |
|   | 3               | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4  |     |
|   | 7               | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 0  |     |
|   | 6               | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9  |     |
|   | <b>* TOTALS</b> |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |     |
| Ovary<br>Cyst   | +               | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |     |
|   | X               |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 6   |
| Uterus<br>Hemorrhage<br>Endometrium, Hyperplasia, Cystic              | +               | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |     |
|   | 2               | 2 | 2 | 1 | 2 | 2 | 2 | 2 | 1 | 2 | 2 | 1 | 2 | 1 | 3 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 32 | 1.7 |
| Vagina<br>Inflammation<br>Epithelium, Cyst                            |                 |   |   |   |   |   |   |   |   |   |   |   |   |   | + |   |   |   | 3 |   | + |   | + | 7  |     |
|   |                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |     |

**HEMATOPOIETIC SYSTEM**

|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |    |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|----|
| Bone Marrow<br>Hyperplasia<br>Hyperplasia, Histiocytic, Focal  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +  | 50 |
|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 2  |
| Lymph Node<br>Mediastinal, Hemorrhage<br>Mediastinal, Hyperplasia, Lymphoid<br>Mediastinal, Pigmentation<br>Pancreatic, Hemorrhage |   |   |   |   |   |   |   |   |   | + | + | + |   |   | + | + |   |   | 3 |   |   | + | 15 |    |
|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 3  |
| Lymph Node, Mandibular   | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M  | 2  |
| Lymph Node, Mesenteric<br>Ectasia<br>Hyperplasia, Lymphoid   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +  | 50 |
|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 1  |
|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 3  |
|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 2  |

\* ... Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

TDMS No. 96015 - 05

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/F 344

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
**WATER DISINFECTION BYPRODUCTS (DIBROMOACETONITRILE)**  
**CAS Number: 3252-43-5**  
**Pathologist: FARRELL, D. - HEATH, J. - JOKINEN, M.**

Date Report Reqsted: 06/09/2006

Time Report Reqsted: 12:50:37

First Dose M/F: 09/05/01 / 09/05/01

Lab: SRI

|   |                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |       |
|---|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-------|
| <b>FISCHER 344 RATS FEMALE</b><br><b>ANIMAL ID</b><br><b>200 MG/L</b> | 7               | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 4 | 7 | 6 | 7 | 7 | 5 | 7 | 7 | 7 | 6 | 7 | 5 | 6 | 7 | 7  |       |
|   | 3               | 0 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 7 | 3 | 7 | 3 | 3 | 9 | 1 | 3 | 3 | 2 | 1 | 5 | 4 | 3 | 0  |       |
|   | 4               | 2 | 4 | 4 | 4 | 6 | 6 | 6 | 6 | 7 | 6 | 1 | 6 | 6 | 0 | 0 | 5 | 5 | 9 | 4 | 1 | 8 | 6 | 1  |       |
|   | 0               | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0  |       |
|   | 0               | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0  |       |
|   | 3               | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4  |       |
|   | 7               | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 0  |       |
|   | 6               | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9  |       |
|   | <b>* TOTALS</b> |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |       |
| Spleen  | +               | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |       |
| Hematopoietic Cell Proliferation                                      |                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 5 2.6 |
| Pigmentation  |                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 1 3.0 |
| Lymphoid Follicle, Atrophy  |                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 1 3.0 |
| Thymus  | +               | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |       |
| Hemorrhage  |                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 1 3.0 |

**INTEGUMENTARY SYSTEM**

|               |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |        |
|---------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------|
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50     |
| Dilatation    | 4 | 3 | 2 |   |   | 3 |   | 4 | 4 |   | 3 | 4 | 3 | 3 |   | 3 | 2 |   | 3 | 3 | 2 |   | 3 | 32 2.9 |
| Fibrosis      |   |   |   |   |   | 3 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1 3.0  |
| Galactocele   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1      |
| Skin          | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49     |
| Ulcer         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1 2.0  |

**MUSCULOSKELETAL SYSTEM**

|              |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |       |
|--------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------|
| Bone         | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50    |
| Hyperostosis |   |   |   |   |   | 2 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1 2.0 |

**NERVOUS SYSTEM**

|                    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |       |
|--------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------|
| Brain              | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50    |
| Compression, Focal | 3 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 6 2.5 |

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

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2) Mild 4) Marked

TDMS No. 96015 - 05

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: RATS/F 344

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
**WATER DISINFECTION BYPRODUCTS (DIBROMOACETONITRILE)**  
**CAS Number: 3252-43-5**  
**Pathologist: FARRELL, D. - HEATH, J. - JOKINEN, M.**

Date Report Reqsted: 06/09/2006

Time Report Reqsted: 12:50:37

First Dose M/F: 09/05/01 / 09/05/01

Lab: SRI

| DAY ON TEST                    | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 4 | 7 | 6 | 7 | 7 | 5 | 7 | 7 | 7 | 6 | 7 | 5 | 6 | 7 | 7 | 7   |          |
|--------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----|----------|
|                                | 3 | 0 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 7 | 3 | 7 | 3 | 3 | 9 | 1 | 3 | 3 | 2 | 1 | 5 | 4 | 3 | 0 |     |          |
|                                | 4 | 2 | 4 | 4 | 4 | 6 | 6 | 6 | 6 | 7 | 6 | 1 | 6 | 6 | 0 | 0 | 5 | 5 | 9 | 4 | 1 | 8 | 6 | 1 |     |          |
| <b>FISCHER 344 RATS FEMALE</b> | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0   | 0        |
| ANIMAL ID                      | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0   | 0        |
| <b>200 MG/L</b>                | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3   | 4        |
|                                | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 0   |          |
|                                | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0   | * TOTALS |
| Hemorrhage, Focal              |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1 |   |   |   |   | 2 | 2.0 |          |
| Peripheral Nerve               |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | + |   |   |   | + | + | 4   |          |
| Spinal Cord                    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | + |   |   |   | + |   | 4   |          |
| Hemorrhage, Focal              |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1   | 3.0      |

**RESPIRATORY SYSTEM**

|                                  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |       |
|----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-------|
| Lung                             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |       |
| Congestion                       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2  | 2.0   |
| Hemorrhage                       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2  | 2.5   |
| Inflammation                     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 7  | 1.4   |
| Alveolar Epithelium, Hyperplasia |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2  | 5.2.0 |
| Nose                             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |       |
| Nasolacrimal Duct, Inflammation  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2  | 1.2.0 |
| Trachea                          | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |       |

**SPECIAL SENSES SYSTEM**

|                             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |     |
|-----------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-----|
| Eye                         | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | A | + | + | 48 |     |
| Atrophy                     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 3 |   |   |   |   | 3  | 3.0 |
| Harderian Gland             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |     |
| Degeneration, Cystic, Focal |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  | 2.0 |

\* ... Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

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TDMS No. 96015 - 05

**Test Type:** CHRONIC

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**Species/Strain:** RATS/F 344

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
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Date Report Requested: 06/09/2006

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Lab: SRI

| DAY ON TEST                    | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 4 | 7 | 6 | 7 | 7 | 5 | 7 | 7 | 7 | 6 | 7 | 5 | 6 | 7 | 5 | 6 | 7        | 7 |
|--------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------|---|
|                                | 3 | 0 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 7 | 3 | 7 | 3 | 3 | 9 | 1 | 3 | 3 | 2 | 1 | 5 | 4 | 3 | 0 | 4 | 3        | 0 |
|                                | 4 | 2 | 4 | 4 | 4 | 6 | 6 | 6 | 6 | 7 | 6 | 1 | 6 | 6 | 0 | 0 | 5 | 5 | 9 | 4 | 1 | 8 | 6 | 1 |   |          |   |
| <b>FISCHER 344 RATS FEMALE</b> | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0        | 0 |
| <b>ANIMAL ID</b>               | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0        | 0 |
| <b>200 MG/L</b>                | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3        | 4 |
|                                | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9        | 0 |
|                                | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | * TOTALS |   |

#### **Epithelium, Hyperplasia, Focal**

1 2.0

## **URINARY SYSTEM**

\*\*\* END OF REPORT \*\*\*

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x .. Lesion present

#### I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

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